ATLAS
STELLARUM VARIABILIUM.

SERIES SEXTA,

EAS SUPPLENS STELLAS VARIABILES,

QUAE AD SERIES I., II., III. ACCESSERUNT,

COMPOSITA

A

I. G. HAGEN, S. I.,

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ATLAS STELLARUM VARIABILIUM.

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Göttingen,	K. Universitäts-Bibliothek (durch Deuerlich'sche Buchhandlung, Göttingen).
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Würzburg,	K. Universitäts-Bibliothek (durch Kössling'sche Buchh., Leipzig).
Zi-ka-wei,	Observatoire.
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PRAEFATIO.

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Huius Seriei Catalogos Chartasve explicare supervacaneum est, cum ad superiores Series, primam, secundam, tertiam, omnino conveniat. Observationes enim stellarum ad hanc Seriem componendam ab eodem auctore, eodem in loco, eodem instrumento, eadem methodo institutae sunt atque ad Series I, II, III; eodemque modo ab iisdem adiutoribus factae sunt omnes computationes.

Una Catalogi columna accedit, quae quidem in singulis foliis e propriis repetitur stellarum magnitudinibus, prout a D. Pickering ex ultimis suis observationibus derivatae nobisque nuper transmissae sunt. Hae autem magnitudines gradibus nostris, tanquam ordinatae suis abscissis, applicatae lucis curvam determinaverunt, ex qua omnium eius chartae stellarum magnitudines quasi scriptae legerentur. Magnitudines hoc graphico modo obtentas invenies sub titulo HP., ubi litteris crassis illae indicantur, quibus ut suis ordinatis quaeque curva innixa est.

Duo sunt, quare huic Seriei columnam HP. addamus: alterum, ut quae sit relatio inter magnitudines Serierum I, II, III et systema HP. clarius appareat, alterum ut tabulae illae XVII, XVIII, quas D. Pickering in suo volumine XXXVII pp. 189—200 ad convertendos gradus nostros in suum systema photometricum tradidit, ad has chartas extendantur.

Et ita quidem haec Series Sexta supplementi loco est, non solum quatenus eas, quae I^{ae}, II^{ae}, III^{ae} supervenerunt stellas variabiles supplet, sed maxime quidem, quia in luce ponit, quae ratio inter stellarum magnitudines, ab his duobus systematis derivatas, intercedat.

Maxima (vel minima) lux in singulis foliorum titulis indicata elementis nititur, quae aut in III catalogo D. Chandler eiusque revisione, aut in II catalogo D. Pickering inveniuntur, aut a «Commissione Societatis Astronomicae» ad novum catalogum praeparandum colliguntur ac nobiscum a D. Müller communicata sunt.

Reliquum est, ut omnibus qui ad hanc ultimam Seriem et generatim ad totum Atlantem componendum et typis edendum suam operam contulerunt, animum gratissimum significemus.

Quod cum singulas Series vulgaremus optavimus, nunc cum opus ad finem feliciter perductum est, repetimus: faxit Deus, ut iuvet ad aperienda nova huius scientiae arcana, eorumque leges tandem cognoscendas, quo magis possint caeli nobis enarrare gloriam Eius.

E Specula Vaticana,
Die XIX Septembris, anni iubilaris MCMVIII.

I. G. Hagen, S. I.

Addenda et Corrigenda.

In Catalogis:

276 **RR Andromedae,** Num. 24, $\varDelta\delta = +19'.8$ pro $+17'.9$.

E charta photographica Harvardensi addi possunt duae vicinae:

$$\varDelta\alpha = \quad 0^m\,0^s, \quad \varDelta\delta = +1'.4$$
$$\varDelta\alpha = -0^m\,3^s, \quad \varDelta\delta = -0'.9$$

7492 **RZ Cygni,** Num. 23 designata BD. $+47^0\,3202\,\mathrm{a}$, $9^{\mathrm{M}}.5$ (AN. 4251).

Post num. 78 adde: $\varDelta\alpha = -0^m\,13^s$, $\varDelta\delta = +1'.4$, q, Parkhurst AN. 3579.

$$+0 \quad 5\,, \qquad -0.5,\ \mathrm{h}, \qquad ,, \qquad ,, \qquad ,,$$
$$+0 \quad 2\,, \qquad +0.6,\ \mathrm{y}, \qquad ,, \qquad ,, \qquad ,,$$

In Chartis:

276 **RR Andromedae,** Num. 24, $\varDelta\delta = +19'.8$ pro $+17'.9$.

7793 **SS Cygni,** Num. 18, $\varDelta\delta = +11'.1$ pro $+ 8'.1$.

X Andromedae

$0^h\,8^m\,33^s$ (1855.0) $+46^0\,12'.4$

Max. $= 2\,415\,062^d$ (11. Febr. 1900) $+ 342^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.2$	$7^M.4$	$-4^m\ 1^s$	$+29'.2$	PD. $7^M.40$ WG—
2			7.5	7.4	$+0\ 42$	-23.9	,, 7.34 GW
3	0	$8^M.0$	8.0	8.1	$-2\ 31$	$+11.3$	
4	5	8.1	8.3	8.3	$-2\ 6$	$-\ 3.9$	
5	10	8.2	8.5	8.4	$+0\ 35$	$+16.0$	
6	13	8.3	8.8	8.6	$-1\ 2$	$+14.8$	
7	15	8.4	8.2	8.6	$-0\ 50$	$-\ 6.3$	
8	21	8.5	8.6	8.9	$-1\ 16$	-12.6	
9	24	8.6	8.5	9.0	$-0\ 54$	$+22.7$	
10	29	8.7	8.8	9.2	$-3\ 0$	-12.3	
11	30	8.7	9.1	9.2	$-1\ 19$	-10.2	
12	31	8.8	8.6	9.3	$-0\ 51$	-24.0	
13	38	8.9	8.9	9.6	$+0\ 40$	$+14.1$	
14	40	9.0	8.9	9.7	$+1\ 18$	$+\ 3.9$	
15	41	9.0	8.9	9.7	$-2\ 4$	$+\ 5.9$	
16	43	9.1	9.2	9.8	$-0\ 56$	-12.9	
17	44	9.1	9.0	9.8	$-0\ 7$	-12.6	
18	44	9.1	9.0	9.8	$+2\ 0$	$+22.5$	
19	48	9.2	9.3	10.0	$-2\ 8$	-25.9	
20	49	9.2	9.4	10.0	$-1\ 19$	$+26.2$	
21	51	9.3	9.3	10.1	$-1\ 2$	-27.5	
22	52	9.3	9.3	10.1	$+1\ 56$	$+18.0$	
23	53	9.3	9.0	10.2	$-2\ 32$	$+15.7$	
24	56	9.4	9.4	10.3	$-2\ 11$	-21.8	
25	59	9.5	9.5	10.4	$-0\ 23$	$+\ 6.3$	
26	61	9.5	9.2	10.5	$-2\ 14$	-11.7	
27	61	9.5	9.2	10.5	$-1\ 11$	$+19.2$	
28	61	9.5	9.5	10.5	$+0\ 20$	-12.0	
29	62	9.5	9.5	10.5	$+1\ 25$	-29.4	
30	64	9.6		10.6	$-1\ 11$	$+18.3$	
31	65	9.6	9.5	10.7	$+1\ 7$	$-\ 6.6$	
32	67	9.7		10.8	$+2\ 15$	-23.9	
33	67	9.7	9.4	10.8	$-0\ 35$	-28.7	
34	68	9.7	9.5	10.8	$+2\ 54$	-17.7	
35	70	9.7	9.5	10.9	$-0\ 34$	$+23.8$	
36	71	9.8		10.9	$-1\ 27$	$+13.0$	
37	74	9.8		11.0	$+1\ 16$	-17.1	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
38	74	$9^M.8$		$11^M.0$	-1^m45^s	$-12'.6$	
39	77	9.9	$9^M.5$	11.1	$-0\ 1$	$+11.9$	
40	77	9.9	9.5	11.1	$-2\ 46$	-23.9	
41	80	10.0		11.3	$-1\ 8$	-12.9	
42	82	10.0		11.3	$+0\ 2$	$+\ 7.5$	
43	83	10.1		11.4	$+1\ 17$	$+11.7$	
44	84	10.1		11.4	$-0\ 53$	$+\ 3.6$	
45	86	10.1		11.5	$+0\ 52$	$+\ 6.6$	
46	87	10.2		11.6	$+0\ 32$	-15.4	
47	88	10.2		11.6	$-0\ 8$	$+10.2$	
48	88	10.2		11.6	$-1\ 23$	$+\ 9.3$	
49	89	10.2		11.7	$+0\ 43$	$+14.9$	
50	90	10.2		11.7	$+0\ 36$	$-\ 5.4$	
51	91	10.3		11.7	$+0\ 30$	$+12.7$	
52	92	10.3		11.8	$+0\ 8$	$-\ 6.6$	
53	95	10.4		11.9	$+1\ 17$	$-\ 9.9$	
54	97	10.4		12.0	$-1\ 13$	$+11.4$	
55	98	10.4		12.0	$-0\ 17$	$-\ 1.8$	
56	98	10.4		12.0	$0\ 0$	$-\ 2.4$	
57	101	10.5		12.1	$+0\ 48$	$+\ 9.0$	
58	101	10.5		12.1	$+0\ 36$	$-\ 4.2$	
59	102	10.5	9.5	12.2	$-1\ 27$	$-\ 9.6$	dpl.*
60	103	10.6		12.2	$+0\ 15$	$+\ 6.1$	
61	103	10.6		12.2	$+1\ 16$	-11.7	
62	105	10.6		12.3	$+0\ 11$	$+11.9$	
63	107	10.7		12.4	$-1\ 3$	$+\ 0.7$	
64	109	10.7		12.5	$-1\ 27$	-11.3	
65	111	10.8		12.6	$+0\ 27$	$+\ 5.4$	
66	112	10.8		12.6	$-1\ 10$	$+\ 0.3$	
67	114	10.8		12.7	$+0\ 1$	$+\ 6.1$	
68	114	10.8		12.7	$-0\ 22$	$+\ 9.3$	
69	116	10.9		12.7	$-0\ 26$	$-\ 3.3$	
70	117	10.9		12.8	$-0\ 21$	$+\ 9.9$	
71	117	10.9		12.8	$+0\ 21$	$+15.0$	
72	118	10.9		12.8	$-0\ 4$	$-\ 0.9$	

* BD. $+46^0$ 30, sic aestimata 5. Febr. et 31. Dec. 1901. A 4. Dec. 1902 in vanum quaesita a D. Graff (A. N. 169 p. 273).

$$M = 8.9 + 0.025\ (G - 36.9).$$

Y Cephei

$$0^h\ 28^m\ 18^s \quad (1855.0) \quad +79^\circ\ 33'.5$$

Max. $= 2\,415\,200^d$ (29 Junii 1900) $+ 336^d$ E·?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$6^M.5$	-10^m30^s	$-18'.6$	PD. $6^M.76$ GW	24	59	$11^M.5$		$11^M.9$	$-0^m\ 5^s$	$-16'.5$	
2			7.7	7.7	$+13\ 30$	-30.7		25	61	11.6		12.0	$+1\ 45$	-16.0	
3	0	$8^M.6$	8.5	8.7	$-\ 0\ 20$	-11.5		26	62	11.7		12.1	$-3\ 0$	$-\ 9.4$	
4	2	8.7	8.8	8.8	$+\ 3\ 20$	-12.1	*	27	64	11.8		12.2	$+2\ 40$	$-\ 6.7$	
5	8	9.0	8.9	9.1	$-10\ 15$	$+\ 0.8$		28	66	11.9		12.3	$-1\ 35$	$+\ 4.3$	
6	10	9.1	9.2	9.2	$-12\ 55$	-15.7		29	69	12.0		12.4	$-5\ 10$	$-\ 4.0$	
7	11	9.1	8.9	9.3	$+\ 3\ 50$	-15.4		30	69	12.0		12.4	$+1\ 30$	$-\ 9.4$	
8	17	9.4	9.5	9.6	$-\ 5\ 55$	$+10.8$		31	69	12.0		12.4	$+2\ 10$	-10.3	
9	19	9.5	9.5	9.7	$+\ 4\ 30$	-19.3		32	69	12.0		12.4	$+1\ 55$	$-\ 7.9$	
10	24	9.8	9.5	9.9	$-\ 4\ 50$	$+\ 1.5$		33	71	12.1		12.5	$+5\ 25$	$+\ 8.9$	
11	28	10.0		10.2	$+\ 7\ 50$	-13.3		34	72	12.2		12.6	$+2\ 45$	$+\ 6.5$	
12	30	10.1		10.3	$+\ 5\ 25$	-16.8		35	72	12.2		12.6	$-4\ 50$	-10.0	
13	33	10.1		10.3	$+\ 0\ 55$	-11.5									
14	33	10.2		10.5	$-\ 3\ 30$	$+13.7$		36	72	12.2		12.6	$+0\ 35$	-10.3	
15	36	10.4		10.6	$-\ 0\ 40$	$+\ 5.3$		37	74	12.3		12.7	$0\ 0$	$-\ 1.5$	
								38	75	12.3		12.8	$-1\ 25$	$-\ 5.7$	
16	39	10.5		10.8	$+\ 6\ 40$	$-\ 4.0$		39	79	12.5		13.0	$+0\ 10$	$-\ 6.1$	
17	45	10.8		11.1	$+\ 3\ 15$	$+\ 5.9$	var.? **	40	81	12.6		13.1	$+0\ 30$	$-\ 1.1$	
18	48	11.0		11.3	$+\ 4\ 40$	$+12.5$									
19	51	11.1		11.5	$-\ 1\ 10$	$+12.8$		41	81	12.6		13.1	$+2\ 30$	$+\ 7.4$	
20	53	11.2		11.6	$-\ 1\ 10$	$+\ 3.9$							$-0\ 55$	$-\ 0.5$	AC. Gr. ***
21	54	11.3		11.6	$-\ 3\ 50$	$-\ 9.1$							$+0\ 50$	$+\ 2.0$	„ „ „
22	56	11.4		11.7	$-\ 3\ 25$	$+\ 4.5$							$+0\ 40$	$-\ 0.2$	„ „ „
23	57	11.4		11.8	$+\ 2\ 40$	$+11.9$									

* BD. $+79^\circ\ 15$ colorata, var.? (Hartwig, A.N. 156 p. 369).

** Ex litteris Cl. Pickering.

*** Desumptae ex Chartis Astrographicis Zonarum $+79^\circ$ et $+80^\circ$ Greenwich, quas Cl. Director W. H. M. Christie, antequam in lucem edere benigne ad nos miserat. Jam quae esset inter has stellas vicinas variabilis Y, a diversa magnitudine photographica $8^M.7$ et $13^M.0$ ultro apparnit.

$$M = 9.0 + 0.050\ (G - 8.8).$$

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V Andromedae

$0^h\ 42^m 14^s$ (1855.0) $+34^0\ 51'.8$

Max. $= 2\,413\,872^d$ (8 Nov. 1896) $+ 259^d.3$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.4$	$8^M.0$	$-2^m\ 6^s$	$+32'.9$	PD. $8^M.33$ W+
2	0	$8^M.3$	8.4	8.5	$-0\ 7$	-19.2	P. 8.4 z*
3	3	8.4	8.0	8.7	$-1\ 57$	$+\ 5.7$	
4	8	8.6	8.3	8.9	$+0\ 33$	-12.6	„ 9.0 b
5	10	8.6	8.5	9.0	$-0\ 11$	$+26.9$	
6	14	8.8	8.9	9.2	$+1\ 11$	$+11.7$	„ 9.1 A′
7	17	8.9	9.0	9.4	$-0\ 37$	-12.6	„ 9.4 y
8	18	8.9	9.0	9.4	$+0\ 58$	-11.7	
9	19	8.9		9.5	$+0\ 10$	$+\ 9.0$	**
10	20	9.0	9.5	9.5	$-1\ 2$	-26.3	
11	21	9.0	9.2	9.6	$+1\ 8$	$+\ 5.2$	„ 9.5 l
12	25	9.1	9.4	9.7	$-1\ 6$	$+17.4$	
13	26	9.2	9.1	9.7	$+2\ 21$	$+23.2$	
14	27	9.2		9.8	$+0\ 9$	$+\ 9.1$	**
15	31	9.3	9.1	9.9	$+1\ 11$	$-\ 6.1$	
16	34	9.4	9.4	10.0	$+1\ 3$	-18.1	
17	35	9.5	9.3	10.1	$+2\ 44$	-24.5	
18	35	9.5	9.1	10.1	$+0\ 18$	$-\ 6.0$	„ 10.1 a
19	36	9.5	9.3	10.1	$-2\ 18$	$+17.6$	
20	39	9.6	9.5	10.3	$+1\ 52$	-18.3	
21	46	9.8		10.5	$-2\ 7$	$+26.6$	
22	53	10.0	9.5	10.8	$+2\ 40$	-12.6	
23	58	10.2		11.0	$+2\ 36$	-15.1	
24	58	10.2		11.0	$-1\ 49$	$+17.7$	
25	58	10.2		11.0	$+1\ 15$	$+10.2$	
26	59	10.2		11.0	$+0\ 17$	-12.3	„ 10.6 f
27	59	10.2		11.0	$-1\ 29$	$+\ 6.6$	
28	60	10.3		11.1	$+0\ 56$	$-\ 3.2$	
29	61	10.3	9.5	11.1	$-1\ 22$	$+24.2$	
30	63	10.4		11.2	$+1\ 4$	$-\ 2.4$	
31	65	10.4		11.3	$+0\ 55$	$+\ 3.3$	
32	68	10.5		11.4	$-0\ 47$	$+14.7$	
33	70	10.6		11.5	$+0\ 44$	$-\ 0.2$	„ 11.3 n

Num.	Gradus	Magn.	BD	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
34	70	$10^M.6$		$11^M.5$	$-1^m 32^s$	$-14'.9$	dpl.
35	73	10.7		11.6	$-0\ 22$	$-\ 5.1$	„ $(11^M.5)$ p
36	74	10.7		11.7	$-0\ 35$	$+15.0$	
37	76	10.8		11.8	$+0\ 31$	$+14.1$	
38	77	10.8		11.9	$+0\ 26$	$-\ 3.0$	„ 11.4 e
39	79	10.9		12.0	$-0\ 31$	$+\ 6.0$	„ 11.4 u
40	80	10.9		12.0	$-0\ 23$	$+\ 5.4$	„ 11.6 t
41	81	11.0		12.1	$-0\ 34$	$-\ 3.9$	„ (12) r
42	82	11.0		12.1	$-1\ 27$	-12.6	
43	82	11.0		12.1	$-0\ 39$	$+\ 9.6$	
44	86	11.1		12.3	$+0\ 15$	$+\ 0.8$	„ 12.0 d
45	87	11.2		12.4	$-0\ 6$	$+\ 6.7$	„ 11.8 s
46	87	11.2		12.4	$+1\ 18$	$+\ 9.6$	
47	89	11.2		12.5	$-0\ 44$	$+\ 6.3$	
48	89	11.2		12.5	$+1\ 21$	$+14.7$	
49	91	11.3		12.6	$-0\ 24$	$-\ 3.6$	„ (12) q
50	93	11.4		12.7	$+0\ 38$	$+\ 0.6$	„ 11.7 o
51	94	11.4		12.8	$-0\ 2$	$-\ 2.3$	„ 12.1 g
52	95	11.4		12.8	$-0\ 30$	$+\ 3.6$	„ 11.6 w
53	96	11.5		12.9	$+1\ 15$	$+13.2$	
54	101	11.6		13.2	$-0\ 6$	$-\ 2.4$	„ 12.5 h
55	105	11.8		13.5	$-1\ 3$	$-\ 1.1$	
					$+0\ 21$	$-\ 1.8$	„ 12.4 m
					$-0\ 14$	$-\ 2.8$	„ 12.6 A
					$+0\ 9$	$+\ 2.5$	„ 13.2 B
					$+0\ 11$	$-\ 0.4$	„ 13.6 E
					$+0\ 1$	$+\ 1.5$	„ 14.0 C
					$+0\ 11$	$+\ 1.6$	„ 14.4 D
					$+1\ 9$	$-\ 7.7$	***

* Parkhurst, Researches in Stell. Photom. 1906. p. 32, Tab. 17 (magnitudines et litterae).

** $(9 + 14) = $ BD $+ 35^0\ 152$, $8^M.3$, HP. $= 8^M.67$, $\Sigma\ 62$.

*** Stella tenuis, visa 5 Octob. 1901, disparuit 6 Octob. 1901.

$$M = 9.0 + 0.033\ (G - 21.2).$$

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RR Andromedae

$0^h 43^m 31^s$ (1855.0) $+33^0 35'.2$

Max. $= 2\,415\,833^d$ (24. Mart. 1902) $+ 328^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$6^M.4$	$7^M.0$	$7^M.0$	$+0^m34^s$	$-29'.3$	PD. $7^M.00$ WG	24	77	$9^M.8$	$9^M.5$	$10^M.5$	-1^m26^s	$+17'.9$	
2	15	7.0	7.7	7.4	-1 24	$+35.9$		25	79	9.9		10.7	$+2$ 14	-17.1	
3	31	7.8	8.0	8.0	$+1$ 56	-27.0		26	79	9.9		10.7	-0 20	-19.2	
4	42	8.2	8.0	8.5	$+1$ 11	$+15.6$		27	82	10.0	9.5	10.9	-2 11	-29.5	
5	46	8.4	8.5	8.7	$+4$ 8	$+10.5$		28	82	10.0		10.9	$+1$ 26	$- 3.6$	
6	48	8.5	9.0	8.9	$+0$ 55	$- 5.9$		29	86	10.2		11.1	$+0$ 58	$+ 7.6$	
7	50	8.6	9.0	9.0	$+4$ 14	$+10.8$		30	88	10.3		11.3	-0 43	$- 0.1$	$10^M.4$ *
8	51	8.7	9.0	9.0	-1 21	$+29.1$		31	91	10.5		11.5	-0 25	$- 5.9$	11.2 *
9	55	8.8	8.8	9.2	$+3$ 8	$+18.3$		32	91	10.5		11.5	$+1$ 17	-14.1	
10	56	8.9	8.8	9.3	-0 13	$- 6.2$		33	94	10.6		11.7	-0 24	-11.9	dpl.
11	59	9.0	9.5	9.4	$+1$ 31	$- 9.9$		34	97	10.7		11.9	-1 30	$+ 0.7$	dpl.
12	61	9.1	8.8	9.6	$+2$ 24	$+18.8$		35	97	10.7		11.9	$+0$ 12	-11.8	
13	62	9.1	9.0	9.6	-1 9	$+31.4$		36	100	10.9		12.2	-1 32	$- 8.1$	
14	64	9.2	9.4	9.7	-0 29	-29.3		37	101	10.9		12.2	$+0$ 48	-11.9	
15	65	9.3	9.0	9.8	-0 41	-26.4		38	102	10.9		12.3	-0 18	$+15.0$	
16	65	9.3	9.2	9.8	$+2$ 10	-13.5		39	104	11.0		12.4	-1 25	$- 6.6$	
17	67	9.4	9.3	9.9	$+1$ 20	-17.7		40	104	11.0		12.4	$+1$ 3	$- 0.2$	
18	68	9.4	9.5	10.0	-1 6	$+24.2$									
19	69	9.5	9.5	10.0	-1 44	$+17.9$		41	108	11.2		12.7	$+0$ 35	$+ 5.4$	
20	70	9.5	9.4	10.1	$+0$ 56	$+23.7$		42	108	11.2		12.7	$+0$ 8	$+ 6.0$	
21	72	9.6		10.2	-0 33	$- 5.1$	$9^M.7$ *	43	108	11.2		12.7	-0 46	$- 0.3$	
22	74	9.7	9.5	10.4	$+1$ 35	$+21.9$		44	110	11.3		12.9	$+0$ 55	0.0	
23	76	9.8	9.5	10.5	$+0$ 22	$+26.7$									

* Anderson AN. 3698.

$$M = 9.0 + 0.045 \, (G - 58.7).$$

U Andromedae

$1^h\ 7^m\ 14^s$ (1855.0) $\ +39^0\ 57'.0$

Max. $= 2\,413\,529^d$ (1. Dec. 1895) $+ 352.6^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$7^M.5$	$7^M.3$	$7^M.8$	-1^m55^s	+26'.0	PD. $7^M.62$ GW	36	103	$10^M.3$		$11^M.0$	-1^m55^s	+ 0'.6	
2	2	7.6	7.3	7.9	-3 12	+11.8	„ 7.66 GW-	37	104	10.3		11.1	+0 15	+12.3	
3	5	7.6	7.3	8.0	-2 9	+30.8	„ 7.78 GW+	38	109	10.5		11.2	+1 24	+14.7	
4	22	8.1	7.8	8.5	-3 4	+35.3		39	112	10.5	$9^M.5$	11.3	+0 27	+26.3	
5	24	8.2	8.3	8.6	+0 44	- 3.9		40	112	10.5		11.3	-0 44	+18.9	
6	25	8.2	8.0	8.6	+0 57	+10.0		41	117	10.7		11.5	-1 43	-15.0	
7	29	8.3	8.5	8.7	+2 14	+17.9		42	121	10.8		11.6	-0 52	- 1.8	
8	36	8.5	9.0	9.0	-1 30	-34.1		43	124	10.9		11.7	+0 50	- 9.6	
9	42	8.6	8.5	9.1	-0 44	+18.8		44	125	10.9		11.7	-0 39	+ 8.7	
10	44	8.7	9.0	9.2	+0 59	+11.7		45	127	10.9		11.8	+0 48	-11.1	
11	45	8.7	8.4	9.2	+3 4	-29.9		46	130	11.0		11.8	-0 54	+ 0.3	
12	47	8.8	9.1	9.3	-0 3	+ 6.5		47	130	11.0		11.8	+0 28	+ 3.0	
13	49	8.8	9.1	9.4	+2 6	-25.6		48	131	11.0		11.9	+0 22	-10.9	
14	53	8.9	9.2	9.5	-1 42	+24.0		49	132	11.1		11.9	-0 29	- 9.3	
15	55	9.0	9.0	9.5	+1 12	-15.0		50	133	11.1		12.0	+0 39	-12.1	
16	58	9.1	9.3	9.6	-1 4	-28.7		51	135	11.2		12.0	-0 49	+ 9.4	
17	62	9.2	9.2	9.7	+0 41	+11.5		52	138	11.2		12.1	+0 54	+ 6.6	
18	63	9.2	9.4	9.8	+2 45	+ 3.0		53	139	11.3		12.2	+0 26	+11.9	
19	65	9.3	9.3	9.9	+2 7	+26.2		54	139	11.3	9.5	12.2	+3 4	-17.1	dpl. *
20	70	9.4		10.0	+1 22	+13.5		55	139	11.3		12.2	+1 28	- 6.5	
21	72	9.5	9.5	10.1	+2 28	-15.9		56	143	11.4		12.3	+1 13	- 3.0	
22	72	9.5	9.2	10.1	+0 42	+26.9		57	148	11.5		12.4	-0 2	+ 8.7	
23	76	9.6	9.5	10.2	-2 40	-26.6		58	149	11.5		12.5	-0 17	+11.7	
24	80	9.7	9.5	10.3	-2 39	-20.1		59	150	11.6		12.5	+0 29	+ 4.8	
25	81	9.7	9.5	10.3	-2 18	-17.2		60	151	11.6		12.5	-0 13	+ 8.1	
26	81	9.7		10.3	+2 4	- 6.3		61	152	11.6		12.6	+0 33	+ 6.1	
27	83	9.8	9.5	10.4	+3 24	-17.3		62	156	11.7		12.7	-0 39	+ 9.9	
28	84	9.8		10.4	+1 46	-14.2		63	157	11.7		12.7	-1 16	+12.3	
29	86	9.8		10.5	-2 31	- 3.0		64	161	11.9		12.8	-1 18	+11.4	
30	88	9.9	9.5	10.5	-0 22	-20.9		65	161	11.9		12.8	-0 56	+ 8.7	
31	90	9.9		10.6	-0 24	-11.4		66	169	12.1		13.1	+0 13	-12.0	
32	95	10.1	9.5	10.7	+0 39	+22.1		67	169	12.1		13.1	+0 7	+ 0.5	
33	96	10.1	9.5	10.8	-1 32	- 3.6		68	175	12.2		13.3	-0 16	- 3.6	
34	98	10.2		10.9	-0 34	+14.7									
35	102	10.3	9.5	11.0	-2 17	+ 3.9									

* Observata Bonnae 1856, 26. et 30. Septemb. (ex litt. D. Deichmüller).

$$M = 8.5 + 0.027\,(G - 36.7).$$

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Y Andromedae

$1^h\ 31^m\ 8^s$ (1855.0) $+38^0\ 36'.3$

Max. $= 2\,415\,101^d$ (22. Mart. 1900) $+ 213^d$ E?

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			$5^M.4$	$4^M.9$	$+0'''55^s$	+74.1	τ Androm. PD. $5^M.22$ W+	23	59	$9^M.9$	$9^M.4$	$10^M.4$	$-2'''8^s$	-20.7	
2			6.7	6.8	+0 26	+80.5	„ 6.92 WG-	24	61	10.0	9.5	10.5	+1 31	-26.6	
3	0	$7^M.1$	6.9	7.2	+0 40	+14.8	„ 7.32 WG-	25	61	10.0		10.5	+2 29	-23.0	**
4	9	7.5	7.5	7.7	+0 27	-22.4	„ 7.84 GW-	26	62	10.1		10.6	-0 24	+12.6	
5	10	7.6	8.3	7.7	+2 30	+ 4.2	Σ 141	27	65	10.2	9.5	10.8	-1 19	-23.2	
6	17	7.9	8.3	8.1	+2 12	+ 7.8		28	67	10.3	9.5	10.9	+2 17	+14.2	
7	22	8.1	8.1	8.3	-0 8	-30.4		29	69	10.4		11.0	+0 12	+ 8.3	
8	24	8.2	8.1	8.4	-1 17	+ 0.5		30	69	10.4		11.0	-0 3	+ 6.0	
9	26	8.3	8.6	8.6	+2 35	- 0.9		31	73	10.6		11.3	+0 37	+11.8	
10	31	8.6	8.8	8.8	+0 51	-11.5		32	73	10.6		11.3	-1 39	- 0.3	
11	35	8.8	8.9	9.0	-1 26	+10.8		33	74	10.6		11.4	-0 48	-12.4	
12	41	9.1	8.9	9.4	-0 19	-19.9		34	79	10.9		11.7	+0 38	-12.0	
13	45	9.2		9.6	+1 31	+ 8.3	*	35	82	11.0		11.9	-0 15	- 9.2	
14	48	9.4	9.4	9.8	-0 32	+ 1.5		36	86	11.2		12.2	+0 5	+12.1	
15	49	9.4	9.2	9.9	-0 30	+ 3.9		37	89	11.4		12.4	+0 33	- 0.8	
16	49	9.4		9.9	+1 31	+ 7.1	*	38	90	11.4		12.5	-0 58	-12.0	
17	51	9.5	9.3	10.0	-0 41	+20.9		39	92	11.5		12.6	-1 2	- 0.3	
18	53	9.6	9.5	10.1	+1 39	+15.0		40	95	11.6		12.9	-0 46	- 0.9	
19	53	9.6	9.2	10.1	-0 40	+ 8.7		41	97	11.7		13.0	+0 9	+ 3.0	
20	56	9.8	9.5	10.2	-0 55	+12.8		42	102	12.0		13.4	-0 9	- 3.6	
21	58	9.9		10.4	+2 29	-23.9	**	RU		var.			-0 58	-40.6	$9^M - <13^M$
22	59	9.9		10.4	+0 22	+23.9									

* $(13 + 16) =$ BD. $+ 38^0\ 321,\ 9^M3$

** $(21 + 25) =$ BD. $+ 38^0\ 325,\ 9^M5$

$$M = 8.9 + 0.048\ (G - 37.8).$$

X Cassiopeiae

$1^h 46^m 42^s$ (1855.0) $+58° 32'.6$

Max. $= 2\,413\,477^d$ (10. Octob. 1895) $+ 384^d$ E (Irregularitates magnae).

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1		$7^M.0$	$6^M.6$	$+1^m37^s$	$+22'.4$	PD. $6^M.81$ GW		41	67	$10^M.2$		$10^M.4$	$+1^m28^s$	$+ 5'.3$	
2		7.5	7.1	−0 55	+ 0.8	„ 7.29 GW−		42	67	10.2		10.4	+0 27	+29.8	*
3	0	$8^M.0$	8.2	8.5	+3 10	− 5.9		43	68	10.3		10.4	+1 27	+12.6	
4	10	8.3	8.6	8.8	+1 49	+ 0.6	colorata	44	71	10.4	$9^M.5$	10.5	+0 34	−28.3	
5	11	8.4	8.1	8.8	1 28	+14.9		45	72	10.4		10.6	+1 9	− 3.7	
6	14	8.5	8.6	8.9	+3 34	−32.3		46	72	10.4		10.6	+0 44	+ 2.1	
7	16	8.5	9.1	8.9	−1 43	−20.9		47	74	10.5		10.6	−1 13	−14.5	
8	17	8.6	8.5	9.0	−1 9	+21.6		48	78	10.6		10.8	−0 23	+ 1.2	
9	22	8.7	8.7	9.1	−3 32	− 9.6		49	79	10.6		10.8	−1 24	− 9.0	
10	26	8.9	8.8	9.2	+3 15	+19.8		50	80	10.7		10.9	−0 50	− 6.6	
11	26	8.9	8.8	9.2	+3 51	+24.1		51	82	10.7		11.0	+1 52	−15.0	
12	29	9.0	9.3	9.2	−2 38	+ 3.0		52	84	10.8		11.1	+1 10	−11.9	
13	29	9.0	9.2	9.2	−0 8	− 3.7		53	84	10.8		11.1	−0 57	+ 8.9	
14	31	9.0	9.1	9.3	+1 34	+21.8		54	85	10.8		11.1	−0 20	+ 0.3	
15	32	9.1	9.5	9.3	+0 11	26.8		55	86	10.9		11.2	+0 7	− 0.2	
16	32	9.1	9.0	9.3	−2 24	− 0.8		56	86	10.9		11.2	0 0	+ 5.8	
17	37	9.2	9.0	9.4	−2 19	−13.4		57	86	10.9		11.2	−0 18	+ 4.4	
18	40	9.3	9.4	9.5	−1 16	−20.0		58	89	11.0		11.3	+1 26	− 8.4	
19	42	9.4	9.4	9.6	1 42	+ 6.3		59	90	11.0		11.3	−1 48	− 5.2	
20	43	9.4	9.5	9.6	+1 0	− 5.5		60	90	11.0		11.3	−0 43	+ 6.3	
21	44	9.5		9.6	+0 30	+29.6	*	61	91	11.0		11.4	+0 28	+ 5.3	
22	44	9.5	9.1	9.6	+3 15	+28.0	dpl.	62	93	11.1		11.5	−1 19	+ 7.2	
23	45	9.5	9.5	9.7	1 36	−16.0		63	93	11.1		11.5	+1 30	−12.3	
24	46	9.5	9.3	9.7	+1 15	− 7.9		64	93	11.1		11.5	+0 48	0.0	
25	46	9.5		9.7	+0 20	+13.5		65	95	11.1		11.6	−1 54	+11.4	
26	48	9.6	9.5	9.8	−2 38	+17.8		66	96	11.2		11.6	−1 36	+ 0.3	
27	49	9.6	9.5	9.8	+2 25	−18.8		67	97	11.2		11.7	−1 59	+ 7.6	
28	50	9.7	9.3	9.8	−0 9	−15.3		68	98	11.2		11.7	−1 33	− 2.1	
29	51	9.7	9.4	9.9	−1 21	−20.3		69	99	11.3		11.8	+0 16	−14.8	
30	53	9.8	9.5	9.9	+3 48	− 6.8		70	100	11.3		11.8	−1 28	+ 0.6	
31	55	9.8	9.5	10.0	2 11	− 9.2		71	101	11.3		11.9	−2 2	−10.5	
32	56	9.9	9.5	10.0	+1 6	− 18.2		72	101	11.3		11.9	+1 45	−12.6	
33	56	9.9	9.4	10.0	−3 43	+18.7		73	101	11.3		11.9	−0 59	− 7.8	
34	58	9.9	9.5	10.1	+2 45	+ 2.1	colorata	74	104	11.4		12.0	+1 45	+11.2	
35	59	10.0	9.5	10.1	+3 36	−29.0		75	108	11.6		12.2	+0 4	− 5.3	
36	59	10.0	9.5	10.1	−0 14	− 8.6		76	110	11.6		12.3	+1 37	− 5.7	
37	59	10.0		10.1	−1 54	−18.0		77	111	11.7		12.4	−1 54	+ 7.2	
38	61	10.0		10.2	−0 12	+ 0.7		78	114	11.8		12.5	+0 6	+ 2.9	
39	65	10.2	9.5	10.3	−1 14	+ 9.8		79	117	11.9		12.6	0 0	− 5.0	
40	67	10.2		10.4	−1 36	+ 6.0		80	118	11.9		12.7	+0 13	+ 2.7	

* $(21 + 42) = $ BD. $+ 59° 362, 9^M.1$

$$\mathbf{M = 8.8 + 0.033\,(G - 23.8).}$$

W Andromedae

$2^{\mathrm{h}}\ 8^{\mathrm{m}}\ 25^{\mathrm{s}}$ (1855.0) $+43^{\circ}\ 37'.8$

Max. $= 2\,415\,001^{\mathrm{d}}$ (12. Dec. 1899) $+ 397.4^{\mathrm{d}}$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1		$5^{\mathrm{M}}.2$	$5^{\mathrm{M}}.1$	$-4^{m}17^{s}$	$-4'.9$	b Androm.
							PD. $4^{\mathrm{M}}.95$ RG–
2		7.7	7.7	$-0\ 45$	-31.9	
3	0	$8^{\mathrm{M}}.9$	8.9	9.1	$-1\ 7$	$+7.8$	P. 9.4 a*
4	2	9.0	9.0	9.2	$+0\ 34$	$+16.6$	„ 9.1 o
5	(6)	var.?	9.5	9.4	$+0\ 11$	$+0.1$	„ 9–9½ c**
6	7	9.2	9.5	9.5	$-0\ 5$	$+3.4$	„ 9.7 b
7	10	9.3	9.3	9.6	$+1\ 26$	-0.5	
8	13	9.4	9.4	9.7	$-1\ 51$	$+17.3$	
9	14	9.4	9.5	9.8	$+1\ 34$	-15.8	
10	15	9.5	9.5	9.8	$-2\ 44$	$+9.7$	
11	18	9.6	9.5	9.9	$-0\ 45$	-11.6	
12	22	9.7	9.5	10.1	$+0\ 47$	$+26.7$	
13	23	9.8		10.1	$-2\ 33$	-23.6	
14	26	9.9	9.5	10.3	$+1\ 29$	-18.1	
15	27	9.9	9.5	10.3	$-2\ 35$	-21.4	
16	27	9.9	9.5	10.3	$+1\ 21$	$+21.9$	
17	29	10.0		10.4	$-1\ 56$	$+17.8$	
18	29	10.0		10.4	$+1\ 6$	$+6.3$	
19	31	10.1		10.5	$+0\ 37$	-0.5	„ 10.3 f
20	31	10 1		10.5	$-0\ 12$	-11.6	
21	32	10.1		10.5	$+0\ 42$	$+6.4$	
22	33	10.2		10.6	$+1\ 24$	-21.6	
23	34	10.2		10.6	$-1\ 11$	-3.9	
24	35	10.2	9.5	10.7	$+1\ 32$	-4.9	
25	41	10.5	9.5	10.9	$+1\ 22$	-7.5	
26	43	10.5		10.9	$-0\ 57$	-12.7	
27	43	10.5		10.9	$-0\ 3$	-6.8	
28	44	10.6		11.0	$-1\ 9$	$+9.0$	
29	45	10.6		11.0	$-1\ 16$	$+2.2$	
30	45	10.6		11.0	$-0\ 30$	$+16.8$	
31	47	10.7		11.1	$-0\ 5$	$+9.1$	
32	48	10.7		11.1	$-0\ 36$	0.0	„ 10.8 d

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
33	50	$10^{\mathrm{M}}.8$		$11^{\mathrm{M}}.2$	$+0^{m}\ 5^{s}$	$-8'.9$	
34	50	10.8		11.2	$-0\ 31$	-3.5	P. – k
35	54	11.0		11.4	$-1\ 31$	-3.8	
36	55	11.0		11.4	$+0\ 41$	-12.5	
37	56	11.0		11.4	$+0\ 17$	-3.0	„ $11^{\mathrm{M}}.3$ g
38	56	11.0		11.4	$-0\ 39$	-7.0	
39	59	11.1		11.5	$+1\ 21$	-3.1	
40	62	11.3		11.7	$+0\ 17$	-6.0	
41	63	11.3		11.7	$-0\ 39$	-14.9	
42	63	11.3		11.7	$-0\ 12$	-11.0	
43	63	11.3		11.7	$+0\ 58$	$+11.3$	
44	64	11.3		11.8	$+0\ 41$	-5.2	
45	65	11.4		11.8	$+0\ 48$	-0.1	
46	67	11.5		11.8	$-0\ 32$	$+2.6$	„ 11.4 m
47	67	11.5		11.8	$-0\ 31$	-3.5	
48	68	11.5		11.9	$-0\ 32$	$+14.2$	
49	70	11.6		12.0	$-0\ 39$	-2.3	„ 11.3 n
50	73	11.7		12.1	$+0\ 57$	$+2.2$	
51	74	11.7		12.1	$+1\ 19$	$+7.3$	
52	74	11.7		12.1	$0\ 0$	$+7.0$	
53	77	11.8		12.3	$+0\ 12$	$+6.7$	
54	81	12.0		12.4	$-0\ 17$	-3.5	„ 12.0 h
55	94	12.5		12.9	$-0\ 1$	-2.6	„ 12.6 u
					$-0\ 7$	-0.5	„ 13.2 w
					$+0\ 6$	-1.4	„ 13.5 z
					$-0\ 6$	-1.3	„ 13.8 α
					$-0\ 11$	-0.7	„ 13.8 y
					$-0\ 6$	$+0.4$	„ 14.4 β
					$-0\ 3$	$+0.2$	„ 14.8 γ

* Parkhurst, Researches in Stell. Photom. 1906 p. 47, Tab. 26 (magnitudines et litterae).

** BD. $+ 43^{\circ}$ 462; vide AN. 3917.

$$\mathrm{M} = 9.2 + 0.038\,(\mathrm{G} - 7.7).$$

1166

X Ceti

$3^h\ 12^m\ 4^s$ (1855.0) $-1^0\ 35'.7$

Max. $= 2\,411\,401^d$ (2. Febr. 1890) $+ 182^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$6^M.2$	$5^M.6$	$-1^m\ 6^s$	$+ 8'.3$		16	85	$11^M.0$		$11^M.6$	-0^m27^s	$- 9'.3$	
2	0	$8^M.0$	7.7	7.9	$+0\ 38$	-31.9		17	87	11.1		11.7	$+0\ 39$	$+18.6$	
3	13	8.5	8.6	8.4	$+1\ 44$	$+32.3$		18	89	11.1		11.8	$+0\ 33$	-17.0	
4	25	8.9	8.8	8.9	$-0\ 53$	-33.2		19	91	11.2		11.9	$-0\ 24$	$+15.5$	
5	28	9.0	9.1	9.1	$+0\ 45$	-28.6		20	92	11.2		12.0	$+0\ 36$	-14.2	
6	33	9.2	9.2	9.3	$+0\ 40$	-29.3		21	96	11.4		12.2	$-0\ 51$	$+17.2$	
7	36	9.3	9.3	9.4	$-0\ 42$	-13.7		22	98	11.4		12.3	$-0\ 9$	$+ 1.2$	
8	36	9.3	9.3	9.4	$-0\ 34$	$+ 2.7$		23	98	11.4		12.3	$-0\ 38$	-12.5	
9	42	9.5	9.5	9.6	$-0\ 47$	-11.4		24	100	11.5		12.4	$+0\ 8$	$+11.4$	
10	46	9.6	9.5	9.8	$+0\ 56$	$+10.5$		25	105	11.7		12.6	$+0\ 30$	$+ 5.1$	
11	46	9.6	9.5	9.8	$-0\ 21$	$+ 6.2$		26	106	11.7		12.7	$+0\ 43$	-21.5	
12	54	9.9	9.5	10.2	$-1\ 5$	-29.1		27	110	11.9		12.8	$+0\ 15$	$+11.8$	
13	72	10.5		11.0	$-0\ 36$	-12.6		28	116	12.1		13.1	$+0\ 7$	$- 9.9$	
14	75	10.6		11.2	$+0\ 42$	$- 9.6$									
15	82	10.9		11.5	$+0\ 26$	$+10.6$									

$$M = 9.0 + 0.035\ (G - 28.3).$$

T Leporis

$4^h 58^m 41^s$ (1855.0) -22^0 6'.4

Max. $= 2\,415\,343^d$ (19. Novemb. 1900) $+ 366\overset{d}{.}5$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$3\overset{M}{.}7$	$3\overset{M}{.}3$	$+0^m38^s$	$-27'.9$	CoD. $3\overset{M}{.}1$
2	0	$8\overset{M}{.}0$	7.5	7.4	$-0\ 10$	$+40.6$	
3	9	8.1	7.7	7.7	$+0\ 26$	$+38.4$	
4	23	8.4	8.6	8.2	$+0\ 43$	$+29.3$	
5	53	8.9	9.0	9.3	$-2\ 9$	$+29.0$	
6	60	9.0	9.2	9.5	$-1\ 20$	$+21.2$	*
7	61	9.0	9.1	9.5	$-1\ 20$	$+26.9$	
8	62	9.1	9.1	9.6	$-1\ 29$	-26.4	„ 9.1
9	68	9.2	9.2	9.8	$+1\ 16$	-16.5	„ 9.3
10	72	9.2	9.0	9.9	$+0\ 11$	-21.0	„ 9.2
11	73	9.2	9.4	10.0	$+1\ 6$	-12.0	„ 9.4
12	75	9.3	9.2	10.0	$-1\ 43$	-10.8	„ 9.3
13	78	9.3	9.3	10.1	$-0\ 45$	-18.6	„ 9.3
14	81	9.4	9.4	10.2	$-1\ 34$	-13.4	„ 9.6
15	84	9.4	9.3	10.3	$+1\ 6$	-15.0	„ 9.5
16	84	9.4	9.1	10.3	$+0\ 40$	$+6.9$	
17	88	9.5	9.6	10.4	$+0\ 46$	-0.2	„ 9.5
18	91	9.5	9.7	10.6	$-0\ 49$	-2.6	„ 9.5
19	95	9.6	9.5	10.7	$-1\ 16$	-12.0	„ 9.4
20	97	9.6	9.5	10.7	$-0\ 35$	$+17.1$	
21	100	9.7	9.9	10.8	$+1\ 36$	-5.5	„ 9.8
22	100	9.7	9.5	10.8	$-1\ 46$	-2.4	„ 9.6
23	103	9.7	9.7	10.9	$-1\ 49$	$+18.0$	
24	104	9.8	9.5	10.9	$-0\ 12$	$+14.4$	
25	106	9.8	9.5	11.0	$+0\ 12$	$+11.5$	
26	111	9.9		11.2	$-0\ 27$	$+1.5$	„ 9.5
27	114	9.9	9.8	11.3	$+1\ 22$	$+2.0$	„ 9.7

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
28	115	$10\overset{M}{.}0$	10^M	$11\overset{M}{.}3$	$+1^m38^s$	$-3'.5$	CoD. 10^M
29	118	10.0	9.8	11.4	$+1\ 0$	$+9.2$	
30	119	10.0	9.5	11.4	$-0\ 1$	$+3.0$	„ 9.7
31	123	10.1	9.9	11.5	$-0\ 21$	$+19.4$	*
32	125	10.1		11.6	$+1\ 30$	-9.0	„ 9.7
33	128	10.2		11.7	$-0\ 59$	-6.3	„ 9.8
34	133	10.3		11.8	$+1\ 6$	$+12.3$	
35	137	10.3		11.9	$+0\ 57$	$+6.3$	
36	140	10.4		12.0	$+0\ 26$	$+11.1$	
37	141	10.4		12.1	$+0\ 13$	-5.2	„ 10
38	147	10.5		12.2	$-0\ 6$	$+8.2$	
39	147	10.5		12.2	$-0\ 52$	$+6.7$	
40	150	10.5		12.3	$+0\ 13$	$+2.2$	„ 10
41	152	10.6		12.4	$-0\ 20$	-12.7	„ 10
42	153	10.6		12.4	$+0\ 24$	$+9.6$	
43	154	10.6		12.5	$-0\ 54$	-2.1	
44	156	10.7		12.5	$-0\ 45$	$+6.7$	
45	159	10.7		12.6	$+0\ 4$	$+13.0$	
46	159	10.7		12.6	$-0\ 55$	$+6.9$	
47	162	10.8		12.7	$-0\ 21$	$+5.8$	
48	164	10.8		12.8	$+0\ 55$	0.0	
49	168	10.9		12.9	$+0\ 51$	-5.7	
50	170	10.9		13.0	$+0\ 16$	-6.6	
51	174	11.0		13.1	$-0\ 21$	-0.6	
52	175	11.0		13.1	$+0\ 26$	-0.2	

* Locus BD. -21^0 1062 respondet huius stellae A. R. et Decl. alterius.

$$M = 9.2 + 0.017\,(G - 70.7).$$

1921

W Aurigae

$5^h 17^m 6^s$ (1855.0) $+36^0 46'.2$

Max. $= 2\,414\,648^d$ (24. Decemb. 1898) $+ 276^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.3$	$5^M.2$	-2^m17^s	$+29.0$	σ Aurigae PD. $5^M.16$ RG–	36	43	$9^M.8$	$9^M.5$	$10^M.6$	-0^m34^s	-3.0	P. $10^M.4$ s
2			6.8	6.9	$-3\ 1$	-30.8	„ 6.98 GW	37	43	9.8	9.5	10.6	$-1\ 27$	-9.4	
3			7.8		$+4\ 30$	-6.7		38	43	9.8	9.5	10.6	$-1\ 31$	-21.2	
4	0	$8^M.3$	8.5	8.4	$+1\ 19$	$+19.9$	P. 8.7 o'*	39	44	9.8	9.5	10.6	$-2\ 38$	$+8.1$	
5	4	8.4	8.7	8.5	$-3\ 12$	-8.3		40	44	9.8	9.5	10.6	$+2\ 45$	-23.9	
6	7	8.5	8.4	8.7	$-1\ 58$	$+20.9$		41	44	9.8	9.5	10.6	$+1\ 2$	$+24.7$	
7	10	8.6	9.0	8.8	$-0\ 51$	$+27.2$		42	44	9.8		10.6	$-1\ 37$	$+6.6$	
8	12	8.7	8.9	8.9	$+2\ 26$	-12.1		43	45	9.9	9.5	10.7	$-0\ 57$	$+29.3$	
9	13	8.7	8.8	9.0	$+0\ 15$	-23.9		44	45	9.9		10.7	$-0\ 46$	$+5.8$	„ f
10	16	8.8	9.2	9.1	$+1\ 12$	$+6.8$	„ 9.4 m'	45	47	9.9	9.5	10.8	$-1\ 19$	$+12.7$	
11	19	9.0	8.8	9.3	$+1\ 35$	-8.3		46	47	9.9		10.8	$+2\ 48$	$+21.7$	
12	20	9.0	9.1	9.3	$-0\ 54$	-27.7		47	47	9.9		10.8	$-1\ 21$	-5.0	
13	22	9.1	9.2	9.4	$+0\ 55$	-21.7		48	47	9.9	9.5	10.8	$-2\ 25$	-29.0	
14	24	9.1	8.9	9.5	$+0\ 33$	-3.9	„ 9.6 c	49	48	10.0	9.5	10.9	$-2\ 13$	-6.2	
15	27	9.2	9.1	9.7	$+2\ 57$	$+3.6$		50	48	10.0	9.5	10.9	$+1\ 21$	-7.3	
16	30	9.3	9.3	9.9	$+1\ 50$	-11.9		51	49	10.0	9.5	11.0	$-1\ 36$	-20.3	
17	32	9.4	9.2	10.0	$+1\ 8$	$+11.7$		52	49	10.0	9.5	11.0	$+1\ 12$	$+0.4$	
18	33	9.4	9.3	10.0	$+3\ 3$	$+9.4$		53	49	10.0		11.0	$-0\ 6$	$+3.8$	„ 10.8 g
19	33	9.4	9.4	10.0	$+0\ 5$	-21.7		54	50	10.0	9.5	11.0	$+0\ 50$	$+9.5$	
20	33	9.4	9.1	10.0	$-2\ 3$	$+8.4$		55	51	10.1	9.5	11.1	$-2\ 59$	-3.6	
21	33	9.4	9.5	10.0	$-0\ 2$	$+12.3$		56	51	10.1		11.1	$-0\ 11$	-8.7	
22	34	9.5	9.5	10.1	$+2\ 49$	-6.0		57	51	10.1		11.1	$-0\ 45$	-7.5	
23	35	9.5	9.4	10.1	$+2\ 8$	-7.0		58	52	10.1		11.1	$+0\ 52$	$+12.0$	
24	37	9.6	9.3	10.2	$+2\ 58$	$+8.3$		59	53	10.1	9.5	11.2	$+2\ 40$	-2.8	
25	38	9.6	9.2	10.3	$-0\ 36$	$+17.8$		60	53	10.1		11.2	$-0\ 42$	-0.8	„ 11.9 w
26	38	9.6	9.4	10.3	$+2\ 46$	$+24.0$		61	54	10.2		11.3	$+1\ 16$	$+3.3$	
27	38	9.6	9.1	10.3	$-2\ 2$	$+9.9$		62	54	10.2		11.3	$+0\ 2$	-1.9	„ 10.9 l
28	39	9.7		10.4	$-0\ 38$	$+2.4$	„ d	63	55	10.2		11.4	$-0\ 20$	-6.5	
29	39	9.7	9.5	10.4	$-0\ 30$	$+3.4$	„ 10.4 a	64	55	10.2		11.4	$+0\ 29$	$+2.6$	„ 10.7 z
30	40	9.7	9.5	10.4	$+2\ 39$	-2.1		65	56	10.2		11.4	$+1\ 19$	-11.7	
31	42	9.8	9.4	10.5	$-2\ 43$	$+4.5$		66	58	10.3		11.5	$+0\ 9$	$+0.4$	„ 11.2 k
32	42	9.8	9.4	10.5	$+1\ 29$	$+25.3$		67	60	10.4		11.7	$+0\ 16$	-11.9	
33	42	9.8	9.4	10.5	$-1\ 43$	-0.5		68	62	10.5		11.8	$-0\ 38$	$+11.1$	
34	43	9.8	9.5	10.6	$-0\ 43$	$+3.7$	„ 10.0 e	69	65	10.6		12.0	$+1\ 20$	-5.4	
35	43	9.8	9.4	10.6	$-0\ 37$	$+24.0$		70	65	10.6		12.0	$-0\ 58$	-6.0	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
71	65	$10^M.6$		$12^M.0$	-1^m15^s	$+11'.6$		88	79	$11^M.1$		$13^M.0$	$+0^m19^s$	$- 2'.1$	P. $11^M.7$ q
72	65	10.6		12.0	$-0\ 7$	$+ 1.9$	P. $11^M.6$ h	89	80	11.1		13.1	$+0\ 22$	$+ 5.4$	
73	66	10.6		12.1	$-1\ 6$	$+ 8.9$		90	80	11.1		13.1	$-1\ 9$	$+ 9.6$	
74	66	10.6		12.1	$-1\ 29$	0.0									
75	67	10.6		12.2	$-0\ 30$	$+ 5.7$		91	81	11.1		13.2	$-0\ 18$	$- 6.0$	
								92	81	11.1		13.2	$-0\ 6$	$+ 0.8$	dpl. **
76	69	10.7		12.3	$+0\ 19$	$- 5.1$	„ 11.9 r						$+0\ 4$	$+ 3.0$	P. 11.9 n
77	70	10.7		12.4	$+1\ 25$	$+ 3.1$							$-0\ 26$	$+ 0.4$	„ 12.1 t
78	70	10.7		12.4	$+0\ 16$	$- 2.7$	„ 11.7 p						$-0\ 26$	$- 0.7$	„ 12.3 u
79	70	10.7		12.4	$-1\ 1$	$+11.8$									
80	72	10.8		12.5	$+0\ 39$	-11.4							$-0\ 7$	$+ 0.9$	„ 12.4 y
													$-0\ 5$	$+ 0.9$	„ 12.6 x
81	72	10.8		12.5	$-0\ 14$	-14.4							$+0\ 8$	$- 1.6$	„ 13.4 μ
82	73	10.8		12.6	$+0\ 39$	-12.6							$+0\ 4$	$+ 0.6$	„ 13.6 β
83	73	10.8		12.6	$-1\ 19$	0.0							$+0\ 7$	$+ 0.9$	„ 13.7 α
84	74	10.9		12.6	$+0\ 15$	$+ 6.9$									
85	75	10.9		12.7	$-0\ 4$	$+ 5.4$	„ 11.6 m						$0\ 0$	$- 0.9$	„ 14.1 η
													$+0\ 8$	$- 0.8$	„ 14.1 θ
86	75	10.9		12.7	$-1\ 4$	$+ 8.4$							$+0\ 4$	$+ 1.1$	„ 14.3 γ
87	77	11.0		12.9	$-0\ 24$	-10.5							$+0\ 1$	$- 1.1$	„ 14.3 ε

* Parkhurst. APJ. vol. 18, 1903 p. 312, Tab. III (magnitudines et litterae).

** 92 = Parkhurst (y + x).

$$M = 8.9 + 0.035\ (G - 17.5).$$

2000

RR Tauri

$5^h\ 30^m\ 30^s$ (1855.0) $+26^0\ 17'.1$

Periodus $= 210^d$?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.7$	$5^M.0$	$+0^m15^s$	$-29'.0$	125 Tauri PD. $5^M.43$ GW	28	55	$10^M.0$		$10^M.4$	$+1^m13^s$	$+12'.9$	
2			6.7	5.7	-2 24	+32.6	,, 6.06 W+	29	59	10.1	$9^M.5$	10.6	0 0	- 2.7	
3			6.8	6.5	-0 34	+14.6	,, 6.59 WG+	30	59	10.1	9.5	10.6	+0 27	+ 0.1	
4	0	$8^M.2$	8.3	8.0	-1 50	- 9.5		31	59	10.1		10.6	-0 21	+ 0.3	
5	4	8.3	8.0	8.2	+2 5	+14.7		32	60	10.1		10.7	-0 14	+ 8.1	
6	7	8.4	8.5	8.3	+2 22	- 6.5		33	65	10.3	9.5	10.9	+1 21	-11.4	
7	11	8.5	8.6	8.5	+2 28	- 5.7		34	69	10.4	9.5	11.1	+0 57	- 7.5	
8	16	8.7	9.0	8.7	+1 34	-14.7		35	71	10.5		11.1	-0 19	-24.6	*
9	18	8.8	8.9	8.8	-0 36	- 3.6		36	71	10.5		11.1	-0 27	-24.8	*
10	24	9.0	9.0	9.0	-1 37	-21.8		37	75	10.6		11.3	+0 35	- 1.2	
11	27	9.1	9.0	9.2	+1 1	-22.8		38	78	10.7		11.5	-0 33	+ 3.3	
12	28	9.1	9.3	9.2	-2 1	+17.1		39	82	10.8		11.7	-0 44	+ 4.2	
13	31	9.2	9.2	9.3	-0 46	+23.3		40	85	10.9		11.8	+0 47	- 9.2	
14	33	9.2	9.4	9.4	+1 24	-30.0		41	87	11.0		11.9	+0 22	- 2.7	
15	33	9.2	9.2	9.4	+0 27	+21.8		42	87	11.0		11.9	-0 32	+ 8.7	
16	35	9.3	9.4	9.5	-1 51	+23.3		43	89	11.0		12.0	+0 18	- 8.7	
17	36	9.3	9.4	9.6	+0 24	-26.4		44	90	11.1		12.1	+0 9	+10.5	
18	36	9.3	9.3	9.6	+0 57	-20.9		45	92	11.1		12.1	+0 17	+12.7	
19	40	9.5	9.2	9.7	-1 58	-18.2		46	94	11.2		12.2	-0 30	-10.3	
20	41	9.5	9.5	9.8	-1 41	+20.6		47	96	11.3		12.3	+0 17	- 6.7	
21	41	9.5	9.4	9.8	-1 57	+27.5		48	96	11.3	9.5	12.3	+1 5	-15.6	
22	43	9.6	9.2	9.9	-0 21	0.0		49	97	11.3		12.4	+0 42	+12.2	
23	45	9.6	9.4	10.0	+1 9	+15.0		50	99	11.4		12.5	+0 34	-12.1	
24	48	9.7	9.5	10.1	-1 18	- 3.5		51	104	11.5		12.7	-0 15	- 9.0	
25	50	9.8	9.5	10.2	-1 3	-14.7		52	104	11.5		12.7	+0 39	+ 5.4	dpl.
26	51	9.8	9.5	10.2	+0 2	+12.7		53	105	11.6		12.7	+0 40	- 5.1	
27	55	10.0	9.5	10.4	-1 1	- 3.0	dpl.	54	109	11.7		12.9	-0 4	+ 2.8	
								55	115	11.9		13.2	+0 3	- 2.7	

* $(35 + 36) =$ BD. $+ 25^0\ 895$, $9^M.5$.

$$M = 9.3 + 0.032\ (G - 34.6).$$

Z & RU Tauri

$5^h 44^m 10^s$ (1855.0) $+15^0 50'.4$

Z Max. $= 2\,416\,130^d$ (15 Jan. 1903) $+ 516^d$ E.

RU Max. $= 2\,416\,744^d$ (20 Sept. 1904) $+ 592^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$8^M.3$	$8^M.4$	$7^M.8$	$+2^m\ 8^s$	$-22'.9$		36	81	$10^M.1$		$10^M.5$	$-0^m\ 6^s$	$+\ 3'.3$	
2	8	8.5	8.5	8.0	$+0\ 31$	$+27.5$		37	82	10.1	$9^M.5$	10.6	$+1\ 11$	-19.8	
3	11	8.5	8.4	8.1	$+1\ 40$	$+27.6$		38	83	10.1	9.5	10.6	$-1\ \ 3$	$-\ 5.0$	
4	14	8.6	8.4	8.2	$+1\ 15$	$+16.3$		39	83	10.1		10.6	$-1\ 27$	$+22.8$	
5	18	8.7	9.0	8.3	$-2\ 29$	$+\ 7.2$		40	83	10.1		10.6	$+0\ 30$	$+\ 1.1$	
6	19	8.7	8.7	8.3	$-0\ 30$	-16.2		41	85	10.2		10.7	$-0\ 56$	$+\ 9.0$	
7	22	8.8	9.0	8.4	$+0\ 44$	$+25.4$		42	85	10.2		10.7	$+1\ \ 5$	-13.5	
8	32	9.0	9.3	8.7	$+1\ 21$	-26.9		43	85	10.2		10.7	$+0\ 42$	$-\ 7.2$	
9	37	9.1	9.0	8.8	$-1\ 56$	-23.1		44	85	10.2		10.7	$+0\ 36$	$-\ 7.1$	
10	40	9.2	9.2	8.9	$+0\ 39$	-32.0		45	85	10.2		10.7	$+0\ \ 4$	$+11.1$	
11	42	9.2		9.0	$-0\ 42$	$-\ 0.3$	var.? *	46	86	10.2		10.8	$+0\ 17$	$+11.2$	
12	43	9.2	9.3	9.1	$-1\ 38$	$+22.5$		47	91	10.3		11.0	$+0\ 43$	$-\ 1.2$	
13	52	9.4	9.3	9.4	$-1\ 22$	$-\ 6.0$		48	93	10.3		11.1	$-0\ \ 3$	-16.8	
14	57	9.6	9.4	9.6	$+1\ 11$	$+27.3$	dpl.	49	95	10.4		11.2	$-1\ \ 0$	-15.3	
15	60	9.6	9.5	9.7	$+0\ \ 1$	-17.7		50	95	10.4		11.2	$-0\ 44$	$-\ 7.8$	
16	61	9.6	9.5	9.7	$-0\ 46$	$+18.3$		51	97	10.4		11.3	$-0\ 34$	-11.4	
17	61	9.6	9.5	9.7	$-1\ \ 2$	-23.1		52	97	10.4		11.3	$+0\ \ 7$	-12.2	
18	61	9.6	9.4	9.7	$+0\ 40$	-14.7		53	100	10.5		11.4	$-0\ 11$	-10.5	
19	61	9.6	9.5	9.7	$+0\ \ 1$	-21.0		54	101	10.5		11.5	$+0\ 48$	$+\ 6.7$	
20	62	9.7	9.4	9.8	$-2\ 19$	$+12.8$		55	102	10.5		11.5	$+0\ \ 6$	$-\ 3.3$	
21	64	9.7	9.5	9.8	$+0\ 33$	-29.9		56	102	10.5		11.5	$-0\ 24$	$-\ 1.2$	
22	65	9.7	9.4	9.9	$+0\ 36$	$-\ 6.9$		57	103	10.6		11.6	$-0\ 22$	$-\ 8.3$	
23	66	9.8	9.4	9.9	$+0\ 24$	$+20.3$		58	103	10.6		11.6	$-0\ 12$	$+\ 4.1$	
24	67	9.8	9.5	10.0	$+1\ 34$	0.0		59	104	10.6		11.6	$-0\ 30$	$-\ 1.3$	
25	71	9.9		10.1	$-0\ 31$	$+\ 8.2$		60	104	10.6		11.6	$-0\ \ 8$	$-\ 2.2$	
26	72	9.9	9.4	10.1	$-0\ 39$	$+\ 2.9$		61	105	10.6		11.7	$-0\ 21$	-12.6	
27	73	9.9	9.5	10.2	$-2\ \ 2$	$+\ 4.4$		62	105	10.6		11.7	$-0\ 35$	-17.4	
28	73	9.9	9.5	10.2	$-0\ 19$	$+\ 1.5$		63	105	10.6		11.7	$-0\ 59$	$+\ 3.3$	
29	74	9.9	9.5	10.2	$-1\ \ 2$	$-\ 9.7$		64	105	10.6		11.7	$-1\ \ 3$	$-\ 5.7$	
30	74	9.9		10.2	$+0\ 47$	$+\ 0.2$		65	106	10.6		11.8	$-0\ 49$	$-\ 2.7$	
31	75	9.9	9.5	10.3	$-0\ 27$	-29.6		66	107	10.7		11.8	$+0\ 18$	-11.8	
32	76	10.0	9.5	10.3	$+0\ 23$	$+16.1$	dpl.	67	107	10.7		11.8	$-0\ 18$	-13.2	
33	76	10.0		10.3	$+0\ 31$	$-\ 8.7$	**	68	108	10.7		11.9	$-0\ 35$	-17.9	
34	77	10.0	9.5	10.4	$-0\ 12$	$+\ 3.5$		69	108	10.7		11.9	$-0\ 26$	$+\ 0.9$	
35	81	10.1		10.5	$+0\ \ 9$	$+\ 6.4$		70	109	10.7		12.0	$-1\ \ 4$	-10.0	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
71	111	$10^{M}.7$		$12^{M}.1$	$-0^{m}\ 9^{s}$	$0'.0$		83	122	$11^{M}.0$		$12^{M}.7$	$+0^{m}26^{s}$	$+11'.6$	
72	111	10.7		12.1	$-0\ 41$	$-\ 3.0$		84	122	11.0		12.7	$+0\ \ 1$	$-\ 1.5$	
73	111	10.7		12.1	$-0\ 38$	$-\ 6.2$		85	122	11.0		12.7	$-0\ \ 8$	$-\ 4.3$	
74	111	10.7		12.1	$-0\ 45$	$+\ 9.9$		86	122	11.0		12.7	$-0\ \ 7$	$+\ 2.4$	
75	113	10.8		12.2	$-0\ 46$	$+\ 7.2$		87	123	11.0		12.8	$+0\ 22$	$-\ 2.7$	
76	114	10.8		12.2	$+0\ 16$	$-\ 9.6$		88	123	11.0		12.8	$+0\ 15$	$+\ 3.6$	
77	115	10.8		12.3	$-0\ 18$	$+\ 0.5$		89	123	11.0		12.8	$-0\ \ 4$	$+\ 0.9$	
78	116	10.9		12.4	$-0\ 42$	$+\ 5.1$		90	124	11.0		12.8	$+0\ \ 4$	$-\ 8.1$	
79	116	10.9		12.4	$+0\ \ 3$	$-\ 0.9$		Z			var.		$-0\ \ 6$	$-\ 5.2$	
80	118	10.9		12.5	$+0\ 35$	$-\ 2.5$		RU			var.		$+0\ \ 6$	$+\ 5.2$	
81	121	11.0		12.6	$-0\ 16$	$-\ 3.8$									
82	121	11.0		12.6	$-0\ 14$	-13.8									

* Designata RS Tauri in AN. 3914; vide Pickering, Cat. II, 1907, notam ad 054615 b.
** Var.? vide AN. vol. 161 p. 211. De ambabus vide Graff in AN. vol. 166 pp. 261—262.

$$\mathbf{M = 9.2 + 0.022\ (G - 41.0).}$$

2186

X Aurigae

6^h 0^m 55^s (1855.0) $+50°$ 15'.1

Max. $= 2\,416\,100^d$ (16. Dec. 1902) $+ 161^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$8^M.4$	$8^M.2$	$8^M.4$	-4^m11^s	+21'.0		28	94	$11^M.0$		$11^M.6$	$+1^m12^s$	+14.2	
2	4	8.5	8.5	8.5	−2 15	− 4.2	G. $8^M.5$ b*	29	100	11.2		11.8	+1 7	− 0.1	
3	5	8.5	8.7	8.6	−3 39	−17.8		30	105	11.3		11.9	−1 30	− 9.7	
4	6	8.5	8.8	8.6	+2 16	+32.9									
5	8	8.6	8.3	8.7	+0 10	−17.3	„ 8.7 a	31	109	11.4		12.0	+0 40	− 8.1	
								32	110	11.4		12.1	+1 15	− 8.1	
6	11	8.7	8.7	8.8	+0 28	+23.2	„ 8.7 c	33	116	11.6		12.2	+1 16	− 3.3	
7	27	9.1	9.5	9.4	−1 33	+24.1		34	118	11.7		12.3	−0 36	+17.3	**
8	31	9.2	9.4	9.5	+3 4	− 0.8		35	118	11.7		12.3	−0 10	−13.8	
9	33	9.3		9.6	+0 7	−18.0									
10	35	9.3	9.4	9.7	+2 51	+ 3.0		36	121	11.7		12.4	−0 10	− 5.2	G. $11^M.1$ m
								37	121	11.7		12.4	−0 47	+ 5.9	
11	39	9.4	9.5	9.8	−1 28	+26.2		38	125	11.9		12.5	−0 1	− 7.2	
12	39	9.4		9.8	−1 56	+27.4		39	126	11.9		12.5	−0 47	+ 3.0	
13	41	9.5		9.9	+1 52	−11.4		40	126	11.9		12.5	−1 8	+ 0.8	
14	43	9.6	9.5	10.0	+1 51	+18.6									
15	44	9.6		10.0	+2 15	−11.7		41	128	11.9		12.5	+1 5	+ 5.8	
								42	130	12.0		12.6	−1 16	+ 6.6	
16	45	9.6		10.1	−0 16	− 4.4	„ 9.8 f	43	130	12.0		12.6	+0 40	− 6.6	
17	51	9.8	9.5	10.3	−0 37	+26.7		44	131	12.0		12.6	+0 3	+ 8.4	
18	54	9.9	9.5	10.4	+1 55	+ 7.1		45	132	12.1		12.6	−0 5	− 5.4	„ 11.0 n
19	57	10.0	9.4	10.5	+0 35	+13.9									
20	62	10.1		10.6	+0 22	+ 6.6		46	133	12.1		12.6	−0 17	− 7.8	
								47	133	12.1		12.6	+0 1	+ 9.9	
21	66	10.2	9.5	10.8	+2 27	− 5.9		48	135	12.1		12.7	+0 46	− 8.1	
22	69	10.3		10.9	−0 48	+21.1		49	139	12.2		12.8	−1 9	+11.4	
23	72	10.4		11.0	−0 36	+17.1	**	50	141	12.3		12.9	+0 18	− 2.7	
24	76	10.5		11.1	−0 40	+ 0.8	„10.3 g								
25	78	10.5		11.2	+1 58	+ 2.1		51	145	12.4		13.0	−0 52	+ 5.4	
								52	147	12.5		13.0	−0 23	+ 3.8	
26	85	10.7		11.4	−0 29	− 5.8	„10.5 h	53	151	12.6		13.1	−0 16	+ 5.9	
27	90	10.9		11.5	−0 55	+17.9		54	155	12.7		13.2	−0 4	+ 1.0	„ 12.4 k

* Graff, A. N. 3925 (magnitudines et litterae).

** (23 + 34) = BD. + 50° 1279, $9^M.5$.

$$M = 8.5 + 0.028 (G — 5.2).$$

V Monocerotis*

$6^h 15^m 25^s$ (1855.0) $- 2^0 7.7$

Max. $= 2\,409\,509^d$ (28 Nov. 1884) $+ 332^d.9$ E.

Num.	Gradus	Magn.	BD.**	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$6^M.5$	$5^M.7$	$+3^m 54^s$	$+41'.9$		38	126	$10^M.3$	10^M	$11^M.2$	$-0^m 39^s$	$-14'.7$	
2	0	$7^M.2$	7.2	6.6	$+1\ 49$	$+46.9$		39	126	10.3		11.2	$+0\ 12$	$+\ 1.8$	
3	26	7.8	7.8	7.8	$-0\ 13$	-30.7		40	126	10.3		11.2	$-0\ 9$	$+\ 4.4$	
4	34	8.0	8.1	8.0	$-2\ 28$	$+\ 8.3$		41	127	10.4		11.2	$+1\ 25$	$+\ 7.4$	
5	58	8.6	8.8	8.9	$-0\ 23$	$+29.4$		42	127	10.4		11.2	$-0\ 5$	-14.8	
6	60	8.7	8.5	8.9	$-0\ 43$	$+\ 9.8$		43	129	10.4		11.3	$-0\ 43$	$+\ 0.3$	
7	65	8.8	8.8	9.1	$+0\ 25$	-27.5		44	130	10.4		11.4	$+0\ 10$	$+\ 3.8$	
8	67	8.9	9.0	9.2	$-0\ 26$	$+24.2$		45	130	10.4		11.4	$+0\ 34$	$+\ 5.8$	
9	69	8.9	9.0	9.3	$-0\ 9$	$+\ 6.1$		46	133	10.5		11.5	$-0\ 55$	$-\ 8.9$	
10	73	9.0	9.1	9.4	$-1\ 46$	$-\ 7.5$		47	136	10.6		11.6	$+0\ 30$	$+\ 6.6$	
11	74	9.0	9.1	9.4	$+2\ 3$	$+24.4$		48	141	10.7		11.8	$-0\ 23$	$-\ 3.6$	
12	75	9.1	9.0	9.5	$-0\ 28$	-14.9		49	144	10.8		11.9	$+0\ 41$	$-\ 6.0$	
13	76	9.1	9.2	9.5	$+1\ 19$	-12.9		50	148	10.9		12.0	$+0\ 41$	-14.1	
14	80	9.2	9.1	9.6	$-2\ 18$	$+\ 6.2$		51	150	10.9		12.1	$+0\ 14$	$-\ 7.1$	
15	85	9.3	9.3	9.8	$+1\ 25$	$+15.2$		52	152	11.0		12.2	$+0\ 34$	-13.8	
16	88	9.4	9.5	9.9	$-1\ 31$	$-\ 0.9$		53	152	11.0		12.2	$-0\ 42$	$-\ 0.3$	
17	93	9.5	9.5	10.1	$+0\ 49$	$+19.2$		54	154	11.0		12.3	$-0\ 7$	$+\ 2.9$	
18	93	9.5	9.6	10.1	$+0\ 37$	$+12.6$		55	155	11.1		12.3	$-0\ 47$	$+\ 9.9$	
19	95	9.6	9.5	10.2	$-0\ 54$	$+30.0$		56	156	11.1		12.4	$+0\ 31$	$-\ 0.1$	
20	98	9.6	9.5	10.3	$-1\ 58$	$+18.0$		57	156	11.1		12.4	$+0\ 31$	$-\ 6.9$	
21	99	9.7	9.5	10.3	$+0\ 29$	-18.6		58	157	11.1		12.4	$-0\ 39$	-12.7	
22	102	9.7	9.5	10.4	$-0\ 34$	$+\ 9.3$		59	160	11.2		12.5	$+0\ 10$	$-\ 7.7$	
23	103	9.8	9.6	10.4	$+0\ 37$	$-\ 8.4$		60	162	11.2		12.6	$+0\ 6$	$+11.9$	
24	105	9.8	9.5	10.5	$-1\ 28$	$+22.0$		61	166	11.3		12.8	$+0\ 8$	-11.7	
25	105	9.8	9.8	10.5	$+0\ 34$	$+\ 7.8$		62	166	11.3		12.8	$+0\ 42$	-14.4	
26	107	9.9		10.5	$+0\ 52$	$+\ 0.7$		63	166	11.3		12.8	$-0\ 3$	$+11.9$	
27	110	9.9	9.5	10.6	$+1\ 6$	$+13.9$		64	170	11.4		12.9	$+0\ 34$	-12.0	
28	111	10.0	9.8	10.7	$-0\ 36$	-26.8		65	171	11.5		13.0	$-0\ 14$	$+12.1$	
29	113	10.0		10.8	$-1\ 6$	-18.0		66	173	11.5		13.1	$-0\ 3$	$+14.4$	
30	115	10.1	9.5	10.8	$+1\ 19$	$+\ 7.8$		67	174	11.5		13.1	$+0\ 44$	$-\ 6.9$	
31	115	10.1		10.8	$+0\ 33$	$+10.8$		68	176	11.6		13.2	$+0\ 52$	-12.3	
32	118	10.1		10.9	$-1\ 37$	$+\ 4.2$		69	178	11.6		13.3	$+0\ 39$	$-\ 4.2$	
33	119	10.2	9.8	11.0	$-0\ 50$	-19.2		70	180	11.7		13.4	$+0\ 54$	-14.1	
34	119	10.2		11.0	$-0\ 6$	$-\ 6.7$		71	182	11.7		13.5	$+0\ 13$	$+\ 9.0$	
35	119	10.2		11.0	$+0\ 30$	$+12.1$		72	182	11.7		13.5	$+0\ 1$	$+\ 2.1$	
36	123	10.3		11.1	$-0\ 43$	$-\ 5.9$		73	183	11.8		13.6	$+0\ 15$	$-\ 0.2$	
37	124	10.3		11.1	$+0\ 19$	$+19.8$									

* Etiam in Serie IV.
** Omnes magnitudines Cl. Schönfeld.

$$M = 9.0 + 0.025 (G - 72.7).$$

R Monocerotis *

$6^h 31^m 15^s$ (1855.0) $+8° 51'.6$

Variatio irregularis.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$7^M.7$	} $7^M.0$	} $6^M.7$	$+1^m 59^s$	$+15'.2$	PD. $7^M.25$ WG, sf } $\Sigma 953$	38	89	$10^M.4$		$11^M.3$	$+0^m 48^s$	$-5'.3$	
2	11	8.0			$+1\ 59$	$+15.3$	„ 8.28 GW, np	39	89	10.4		11.3	$-1\ 3$	$+7.2$	
3	11	8.0	7.8	7.5	$-1\ 39$	$+24.3$		40	90	10.4		11.4	$-1\ 5$	-13.8	
4	19	8.3	8.5	7.9	$+1\ 13$	-35.1									
5	28	8.5	8.7	8.4	$-0\ 33$	$+25.5$		41	90	10.4		11.4	$-0\ 48$	$+5.3$	
								42	91	10.4		11.4	$+0\ 14$	-15.3	
6	29	8.6	8.4	8.4	$-0\ 43$	-14.9		43	94	10.5		11.5	$+0\ 34$	$+12.0$	
7	32	8.6	8.5	8.6	$-1\ 33$	$+11.1$		44	94	10.5		11.5	$-0\ 19$	-6.0	
8	35	8.7	8.9	8.7	$+0\ 25$	-23.2		45	94	10.5		11.5	$-0\ 44$	$+12.5$	
9	37	8.8	9.2	8.8	$+0\ 49$	-11.9									
10	39	8.9	9.1	8.9	$+1\ 28$	-14.2		46	109	11.0		12.2	$+0\ 11$	$+14.5$	
								47	109	11.0		12.2	$-1\ 3$	$+3.8$	
11	41	8.9	9.3	9.0	$+0\ 50$	-27.8		48	111	11.0		12.3	$-0\ 22$	$+11.4$	
12	43	9.0	9.3	9.1	$+1\ 31$	-15.4		49	112	11.0		12.3	$+0\ 6$	-8.3	
13	(47)	9.1	8.9	9.3	$+0\ 8$	-5.7	var. ?	50	112	11.0		12.3	$-1\ 0$	$+12.9$	
14	48	9.1	9.3	9.4	$+0\ 58$	-22.1									
15	52	9.2	9.3	9.5	$-0\ 28$	-12.2		51	114	11.1		12.4	$-0\ 30$	$+8.4$	
								52	(115)	11.1		12.5	$-0\ 54$	-5.4	
16	54	9.3	9.2	9.6	$-1\ 31$	-15.8		53	116	11.2		12.5	$+0\ 41$	$+10.2$	
17	55	9.3	9.0	9.7	$-1\ 17$	$+11.2$		54	116	11.2		12.5	$-0\ 49$	-2.7	
18	56	9.4	9.4	9.8	$-1\ 47$	$+21.0$		55	121	11.3		12.7	$+0\ 33$	-5.9	
19	60	9.5		9.9	$-0\ 24$	$+5.8$	**								
20	63	9.6		10.1	$-0\ 26$	$+17.6$		56	121	11.3		12.7	$-1\ 7$	-4.2	
								57	122	11.3		12.8	$+0\ 38$	-6.5	
21	64	9.6	9.3	10.1	$+0\ 6$	$+1.8$		58	122	11.3		12.8	$+0\ 38$	$+8.1$	
22	70	9.8	9.5	10.4	$+0\ 18$	-11.1		59	122	11.3		12.8	$+0\ 29$	-11.4	
23	70	9.8	9.5	10.4	$+1\ 12$	-23.9		60	123	11.4		12.8	$-1\ 1$	-0.9	
24	71	9.8	9.3	10.5	$-1\ 36$	$+0.8$									
25	75	9.9	9.5	10.6	$-1\ 13$	$+20.1$		61	(123)	11.4		12.8	$-0\ 56$	-5.4	
								62	125	11.4		12.9	$-0\ 15$	-2.4	
26	77	10.0		10.7	$+0\ 6$	-9.6		63	125	11.4		12.9	$+0\ 38$	-3.9	
27	80	10.1		10.9	$-0\ 30$	$+13.7$	****	64	126	11.5		13.0	$+0\ 15$	$+0.6$	
28	80	10.1		10.9	$-1\ 2$	-5.1		65	129	11.6		13.1	$+0\ 35$	$+8.9$	
29	80	10.1		10.9	$+1\ 4$	-18.6									
30	81	10.1	9.5	10.9	$+0\ 44$	-3.0		66	129	11.6		13.1	$-0\ 48$	$+4.4$	
								67	130	11.6		13.1	$+0\ 15$	$+1.2$	
31	83	10.2		11.0	$-0\ 25$	$+4.8$	**	68	130	11.6		13.1	$+0\ 18$	$+7.2$	
32	84	10.2		11.1	$+0\ 10$	-15.6		69	131	11.6		13.2	$-1\ 3$	-2.9	
33	85	10.2		11.1	$-1\ 30$	$+18.7$	***	70	133	11.7		13.3	$-0\ 9$	$+3.8$	
34	86	10.3		11.2	$+0\ 45$	-4.2									
35	86	10.3		11.2	$-0\ 27$	$+14.2$	****	71	133	11.7		13.3	$-0\ 10$	-2.4	
								72	134	11.7		13.3	$-0\ 15$	-3.6	
36	87	10.3		11.2	$+0\ 44$	$+8.1$		73	135	11.7		13.4	$-0\ 13$	$+3.9$	
37	89	10.4		11.3	$-1\ 29$	$+18.8$	***						$-0\ 1$	-2.3	{ var.? Picke Cat. II

* In nebula N.G.C. 2261.

** $(19 + 31) =$ BD. $+8°$ 1424, $9^M.5$.

*** $(33 + 37) =$ BD. $+9°$ 1308, 9.4.

**** $(27 + 35) =$ BD. $+9°$ 1318, 9.5.

$$M = 9.0 + 0.030 (G - 43.8).$$

2376

S Lyncis

6^h 32^m 3^s (1855.0) $+58^0$ $2'.7$

Max. $= 2\,414\,265^d$ (6 Dec. 1897) $+ 298^d.1$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1	0	$8^M.2$	$8^M.0$	$7^M.7$	$+2^m$ 5^s	$- 8'.3$		24	59	$10^M.1$		$11^M.0$	$+4^m$ 1^s	$- 7'.0$	* *
2	7	8.4	8.8	8.1	-1 1	$+32.9$		25	60	10.1		11.1	$+1$ 27	$- 2.4$	
3	10	8.5	8.7	8.3	-1 42	$+ 6.0$		26	65	10.3		11.3	-1 22	$+13.8$	
4	11	8.5	8.5	8.4	$+0$ 7	$+18.2$		27	69	10.4		11.5	-0 33	-11.8	
5	15	8.7	8.6	8.6	-1 31	$+22.7$		28	71	10.5		11.6	$+0$ 46	$- 2.7$	
6	16	8.7	8.6	8.6	-1 39	$+23.1$		29	73	10.6		11.7	-0 55	$+12.9$	
7	16	8.7	8.9	8.6	-3 36	$+ 6.0$		30	74	10.6		11.8	-2 14	$- 2.1$	
8	22	8.9	8.7	9.0	$+2$ 52	-14.7		31	75	10.6		11.9	-0 31	$+11.7$	
9	24	9.0	9.0	9.1	$+0$ 47	-24.7		32	79	10.8		12.0	-2 8	$- 9.3$	
10	28	9.1	9.3	9.3	$+1$ 32	$+ 2.1$		33	84	10.9		12.3	-0 18	-12.7	
11	34	9.3	9.2	9.6	-1 6	-28.1		34	85	11.0		12.3	$+0$ 5	$- 5.3$	
12	35	9.3	9.4	9.7	$+1$ 57	$+ 8.9$		35	89	11.1		12.5	-1 15	$- 5.3$	
13	37	9.4	9.0	9.8	-0 22	$+ 1.5$		36	91	11.2		12.6	-0 25	0.0	
14	42	9.6	9.4	10.1	-1 49	-15.3		37	98	11.4		12.9	-0 37	$- 1.7$	
15	45	9.7	9.5	10.2	$+3$ 47	$+ 2.3$		38	99	11.4		13.0	-0 43	$+11.2$	
16	47	9.7		10.3	$+0$ 31	-14.5		39	99	11.4		13.0	-0 13	$- 2.1$	
17	50	9.8		10.5	-1 7	$+25.2$	*	40	100	11.5		13.0	-0 30	$+12.0$	
18	51	9.8		10.6	$+4$ 0	$- 7.9$	* *	41	101	11.5		13.1	$+1$ 10	$+ 9.3$	
19	53	9.9	9.5	10.7	-3 36	$- 0.6$		42	101	11.5		13.1	-0 17	$+ 5.9$	
20	55	10.0		10.8	-0 34	-19.2		43	103	11.6		13.1	$+0$ 35	$+ 0.5$	dpl.
21	55	10.0		10.8	-0 59	$+25.1$	*	44	104	11.6		13.2	-0 51	-12.0	
22	57	10.0		10.9	$+1$ 17	$+ 5.3$		45	109	11.8		13.4	$+0$ 10	$- 6.3$	
23	59	10.1		11.0	-0 41	-15.1									

* (17 + 21) = BD. $+ 58^0$ 958, $9^M.5$.
** (18 + 24) = BD. $+ 57^0$ 1007, 9.4.

$$M = 8.7 + 0.033 \ (G - 16.2).$$

X Geminorum

$6^h 37^m 50^s$ (1855.0) $+30^0 25'.6$

Max. = $2 414 234^d$ (5 Nov. 1897) $+ 262^d.7$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$7^M.1$	$-1^m 59^s$	$+32'.6$	Σ 957 / PD. $7^M.52$ GW	36	86	$10^M.5$		$11^M.7$	$+0^m 9^s$	$+ 2'.1$	{ B*** / $11^M.2$ n. 9
2	0	$7^M.7$	8.2	7.9	-0 32	-26.6	N 3 *	37	89	10.6		11.8	-0 22	+ 6.1	
3	3	7.8	7.8	8.0	+0 38	- 9.6		38	89	10.6		11.8	-0 11	+23.0	
4	12	8.1	8.2	8.4	+0 23	+20.9		39	92	10.7		11.9	-0 6	+ 9.0	
5	13	8.1	8.2	8.5	-2 34	+12.2	,, 6	40	97	10.8		12.1	+1 27	+14.3	
6	22	8.4	8.7	8.9	+2 0	- 8.6		41	97	10.8		12.1	+0 39	-14.4	
7	34	8.8	9.0	9.4	-1 18	+10.0	,, 14	42	99	10.9		12.2	-1 10	+ 0.1	
8	36	8.9	8.9	9.5	-1 36	- 5.8	,, 15	43	99	10.9		12.2	+0 43	- 3.1	
9	40	9.0	9.1	9.6	+2 29	+ 6.4		44	102	11.0		12.3	-1 15	-13.0	
10	41	9.0	8.6	9.7	-2 46	+13.4	,, 13	45	103	11.0		12.4	-0 1	+14.1	
11	42	9.1	8.9	9.7	-1 59	+20.4		46	105	11.1		12.5	-0 16	- 3.9	
12	45	9.2	9.0	9.9	-2 5	-11.3	,, 20	47	106	11.1		12.5	-0 32	+12.1	
13	51	9.3	9.2	10.1	-1 20	-23.6	,, 23	48	106	11.1		12.5	-0 37	- 6.6	
14	54	9.4	9.3	10.3	-1 16	+13.8		49	110	11.2		12.7	-0 3	- 1.1	B. 11.8 ,, 5
15	55	9.5		10.3	+2 28	- 8.4		50	111	11.3		12.7	-0 2	+21.2	****
16	56	9.5	9.5	10.4	+1 34	-16.9		51	111	11.3		12.7	-0 32	+ 2.4	
17	58	9.6	9.3	10.4	-0 24	-17.9	,, 25	52	111	11.3		12.7	+1 1	+ 6.6	
18	61	9.7	9.5	10.6	-2 5	-26.0	,, 28	53	113	11.3		12.8	+1 23	+ 0.6	
19	61	9.7		10.6	-2 16	-15.7	,, 30 + 49	54	114	11.4		12.8	+0 28	-10.1	trpl.
20	62	9.7	9.5	10.6	-0 12	+26.3		55	114	11.4		12.8	-1 2	+ 5.1	
21	63	9.7	9.5	10.7	-0 2	-23.3	,, 29	56	117	11.5		12.9	+0 18	+ 3.2	
22	64	9.8		10.7	+1 33	+20.1	**	57	119	11.5		13.0	-0 59	+ 5.4	
23	66	9.8	9.4	10.8	+0 47	-16.4		58	120	11.6		13.1	-0 46	+10.2	
24	66	9.8		10.8	+1 35	+18.8	**	59	120	11.6		13.1	0 0	+ 0.8	B. 12.5 ,, 6
25	69	9.9	9.5	10.9	-0 51	-27.9	N 39	60	120	11.6		13.1	+0 55	- 3.1	
26	71	10.0	9.5	11.0	+2 21	+ 2.2		61	122	11.6		13.2	-0 46	+12.6	
27	72	10.0		11.0	-0 1	+20.6	****	62	123	11.6		13.2	+0 53	- 3.6	
28	74	10.1	9.5	11.1	+1 47	-30.2		63	125	11.7		13.3	+0 49	+ 4.4	
29	75	10.1		11.2	-0 14	+18.4							-0 7	- 1.2	,, 13.4 ,, 2
30	76	10.1		11.2	-1 11	- 7.9	,, 40						-0 9	- 1.9	,, 13.8 ,, 1
31	78	10.2		11.3	-1 2	+12.6							+0 1	+ 0.9	,, 14.2 ,, 8
32	79	10.2	9.5	11.3	-2 15	-25.0	,, 41						-0 4	- 1.7	,, 15.0 ,, 4
33	80	10.3		11.4	-0 11	+20.3							-0 4	- 1.0	,, 15.3 ,, 3
34	80	10.3		11.4	+0 4	- 8.4					Nova		-2 54	-20.3	$1903, 5^M -< 14^M.$
35	82	10.3	9.5	11.5	+0 18	- 3.6									

* Numeri (N) ex „Chart and Catalogue for observing Nova Geminorum", Washington 1893.

** (22 + 24) = BD + 30° 1334, $9^M.5$.

*** Bellamy, Monthly Not. vol. LXIII, 1903 p. 526 (magnit. photograph. et numeri).

**** (27 + 50) = BD + 30° 1327, $9^M.5$.

$$M = 9.0 + 0.032 (G - 40.3).$$

2468

Y Monocerotis

$$6^h\ 48^m\ 49^s \quad (1855.0) \quad +11^0\ 25'.7$$

Max. = $2\ 415\ 790^d$ (9 Febr. 1902) $+\ 225^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$6^M.2$	$+0^m32^s$	$+40'.2$	PD. $6^M.51$ GW	26	65	$9^M.9$		$10^M.5$	$+0^m24^s$	$+ 6'.2$	
2	0	$7^M.9$	8.0	7.6	$+0\ 37$	-16.3		27	68	9.9		10.7	$+0\ 20$	$+14.7$	
3	4	8.0	8.0	7.8	$-0\ 2$	$+ 9.1$		28	70	10.0	$9^M.5$	10.7	$+0\ 46$	$- 1.2$	
4	10	8.2	8.3	8.0	$-0\ 32$	-13.2		29	72	10.1		10.8	$-0\ 8$	-12.0	
5	12	8.3	8.3	8.1	$-2\ 5$	$+11.4$		30	73	10.1	9.5	10.9	$-0\ 43$	$+23.3$	
6	16	8.4	8.7	8.3	$+1\ 1$	0.0		31	74	10.1		10.9	$-1\ 38$	$+11.4$	
7	21	8.5	8.5	8.6	$-0\ 14$	$+30.3$		32	74	10.1	9.5	10.9	$+0\ 4$	$+ 4.8$	
8	24	8.6	9.2	8.7	$+0\ 24$	$- 6.6$		33	80	10.3	9.5	11.2	$+0\ 5$	$+ 5.4$	
9	26	8.7	8.8	8.8	$-0\ 47$	-18.6		34	80	10.3		11.2	$+0\ 58$	$+ 0.9$	
10	33	8.9	8.6	9.1	$+0\ 23$	$- 5.7$		35	80	10.3		11.2	$+1\ 8$	$- 0.9$	
11	37	9.0	9.4	9.3	$-1\ 17$	$+29.8$		36	80	10.3	9.5	11.2	$-1\ 24$	$+14.7$	
12	38	9.0	8.8	9.3	$-1\ 0$	$- 6.0$		37	84	10.4		11.4	$-1\ 6$	$+ 6.0$	
13	44	9.2	9.4	9.6	$+2\ 0$	$- 9.3$		38	89	10.6		11.6	$-1\ 4$	-11.4	
14	48	9.3	9.2	9.8	$+0\ 21$	-14.0	*	39	89	10.6		11.6	$-0\ 56$	$+ 4.5$	
15	51	9.4	9.4	9.9	$-1\ 27$	$- 8.7$		40	91	10.6		11.7	$+0\ 15$	$- 0.3$	
16	53	9.5	9.5	10.0	$+1\ 48$	-15.4		41	94	10.7		11.8	$-0\ 32$	$- 3.0$	
17	54	9.5	9.5	10.1	$+1\ 33$	-13.8		42	95	10.8		11.8	$+0\ 31$	$+11.9$	
18	56	9.6	9.5	10.1	$-1\ 44$	-20.0		43	98	10.8		12.0	$+0\ 44$	$- 3.6$	
19	57	9.6	9.4	10.2	$-0\ 45$	$+20.6$		44	99	10.9		12.0	$+0\ 21$	$+ 9.6$	
20	58	9.6	9.5	10.2	$-1\ 40$	-17.3		45	103	11.0		12.2	$+0\ 39$	$- 6.9$	
21	58	9.6	9.5	10.2	$+1\ 50$	$+29.3$		46	104	11.0		12.2	$+0\ 41$	-10.2	
22	60	9.7	9.5	10.3	$+1\ 32$	$+14.1$		47	104	11.0		12.2	$+0\ 42$	$+ 6.9$	
23	60	9.7	9.2	10.3	$+0\ 20$	-13.8	*	48	107	11.1		12.3	$+0\ 47$	$+ 5.7$	
24	63	9.8	9.5	10.4	$+1\ 58$	$+18.4$		49	109	11.2		12.4	$+0\ 44$	$- 6.9$	
25	65	9.9	9.5	10.5	$+1\ 47$	$+12.3$		50	109	11.2	9.5	12.4	$-0\ 38$	$+12.0$	var.?

* (14 + 23) = Σ 995.

$$M = 8.7 + 0.030\ (G - 26.6).$$

V Canis Minoris

$6^h 59^m 4^s$ (1855.0) $+ 9^0 5'.6$

Max. $= 2\,410\,174^d$ (24 Sept. 1886) $+ 364^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1			6^M6	6^M0	-1^m21^s	+18'.7	PD. 5^M89 G—	41	98	10^M0		10^M9	$+0^m59^s$	−14.2	
2	0	8^M4	8.5	7.6	−1 54	−20.8		42	100	10.1	9^M5	11.0	+2 0	− 0.6	dpl.
3	6	8.5	8.6	7.8	+1 21	−24.2		43	102	10.1		11.0	+0 53	− 1.2	
4	12	8.6	8.4	8.0	−0 16	− 9.5		44	103	10.1		11.1	−0 54	+ 3.1	
5	19	8.7	8.9	8.2	+1 4	+ 4.9		45	105	10.1		11.1	−0 30	+14.9	
6	22	8.7	8.7	8.3	+2 19	− 0.9		46	107	10.2		11.2	+0 7	+ 8.4	
7	25	8.8	8.8	8.4	−1 30	− 6.2		47	107	10.2		11.2	+0 51	− 1.6	
8	28	8.8	8.8	8.5	+1 10	−15.8		48	110	10.2		11.3	−0 34	−12.7	
9	38	9.0	9.0	8.8	+0 25	+20.3		49	113	10.3		11.4	−0 3	− 0.9	
10	41	9.1	9.0	8.9	−0 26	−19.2		50	119	10.4		11.6	+0 26	+ 3.6	
11	43	9.1	9.2	9.0	−0 59	+14.0		51	122	10.4		11.7	+0 16	−10.2	
12	44	9.1	9.1	9.0	+1 12	−19.4		52	123	10.5		11.8	+0 42	+ 2.4	
13	49	9.2	9.1	9.2	−0 28	−19.8		53	125	10.5		11.8	+0 31	− 7.8	
14	49	9.2	9.1	9.2	−1 14	+28.9		54	130	10.6		12.0	+0 10	− 0.4	
15	49	9.2	9.2	9.2	−0 19	+11.4		55	132	10.6		12.1	−0 3	− 7.8	
16	51	9.2	9.3	9.3	−0 53	+10.6		56	132	10.6		12.1	+0 22	+15.1	
17	55	9.3	9.4	9.4	−1 12	+ 6.6		57	134	10.6		12.2	+0 6	− 2.5	
18	56	9.3	9.4	9.4	−2 0	−16.5		58	137	10.7		12.3	−0 39	+12.3	
19	57	9.3	9.1	9.5	0 0	−16.9		59	138	10.7		12.3	−0 16	−14.7	
20	58	9.4	9.2	9.5	−1 33	+ 1.6		60	141	10.8		12.4	−0 49	+ 5.3	dpl.
21	58	9.4		9.5	−1 28	−18.7		61	144	10.8		12.5	−0 13	+ 2.3	
22	59	9.4		9.5	+0 57	+ 5.2		62	144	10.8		12.5	+0 15	+ 3.8	
23	59	9.4	9.4	9.5	+0 31	+10.2		63	144	10.8		12.5	−0 14	−12.6	
24	60	9.4	9.4	9.6	−1 38	+17.3		64	146	10.8		12.6	+0 48	+ 1.8	
25	61	9.4	9.2	9.6	−1 11	−16.4		65	149	10.9		12.7	−0 39	+13.6	
26	62	9.4	9.3	9.6	+0 50	− 1.2		66	149	10.9		12.7	+0 14	+14.5	
27	65	9.5	9.3	9.7	+1 13	−19.1		67	151	10.9		12.8	+0 33	+13.8	
28	68	9.5	9.5	9.9	0 0	−17.7		68	151	10.9		12.8	+0 26	− 0.3	
29	72	9.6	9.5	10.0	+1 1	+19.1		69	153	11.0		12.9	+0 14	−14.1	
30	76	9.7	9.3	10.1	+0 34	−11.8		70	153	11.0		12.9	+0 22	− 1.2	
31	78	9.7		10.2	−0 11	−11.4		71	154	11.0		12.9	+0 5	+ 3.6	dpl.
32	82	9.8	9.4	10.3	+2 0	+25.1		72	158	11.1		13.0	+0 39	− 8.1	
33	87	9.8	9.5	10.5	−1 47	−27.6		73	163	11.1		13.2	+0 39	− 6.9	
34	88	9.9	9.5	10.5	+1 39	+22.8		74	176	11.4		13.7	+0 12	+ 0.3	
35	88	9.9	9.5	10.5	+0 48	+ 6.9		75	178	11.4		13.7	−0 10	− 1.8	
36	93	9.9	9.5	10.7	−1 44	+16.9		76	178	11.4		13.7	0 0	+ 2.0	
37	94	10.0	9.5	10.7	−1 56	− 3.9		77	179	11.4		13.8	−0 11	− 3.1	
38	94	10.0	9.5	10.7	−0 51	+27.6									
39	96	10.0		10.8	+0 46	+11.8									
40	97	10.0		10.8	−0 22	+ 0.2									

$$M = 9.0 + 0.017\,(G - 37.4).$$

3264

W Cancri

$9^h\ 1^m\ 24^s$ (1855.0) $+25^\circ\ 50'.1$

Max. $= 2\,410\,153^d$ (3 Sept. 1886) $+ 384^d$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			$7^M.3$	$6^M.8$	$-2^m\ 0^s$	$+22'.3$	PD. $7^M.26$ GW	16	76	$10^M.1$		$11^M.1$	$+1^m 52^s$	$-17'.2$	
2	0	$8^M.3$	8.5	7.7	$+1\ 29$	$+10.6$		17	81	10.3		11.3	$-0\ 9$	$+ 9.0$	
3	10	8.6	8.5	8.2	$-0\ 32$	$+35.0$		18	91	10.5		11.7	$+0\ 37$	$+11.5$	
4	21	8.8	8.7	8.7	$-2\ 8$	-26.3		19	98	10.7		11.9	$-1\ 9$	-11.3	
5	23	8.9	9.0	8.8	$+1\ 43$	$+10.9$		20	102	10.8		12.1	$+0\ 17$	-11.2	
6	30	9.0	9.3	9.1	$-1\ 14$	-23.6		21	104	10.8		12.1	$-1\ 2$	$- 2.2$	
7	33	9.1	9.0	9.3	$+2\ 3$	-10.9		22	106	10.9		12.2	$+0\ 6$	$+13.5$	
8	41	9.3	9.3	9.6	$+2\ 10$	$- 0.4$		23	113	11.0		12.4	$+0\ 1$	$- 2.1$	
9	44	9.4	9.1	9.8	$+1\ 25$	$+17.4$		24	119	11.2		12.6	$+0\ 4$	$+ 2.9$	
10	50	9.5		10.0	$+1\ 4$	$+26.0$		25	120	11.2		12.7	$-0\ 36$	-11.7	
11	62	9.8		10.5	$+1\ 8$	-24.5	*	26	130	11.4		13.0	$-0\ 32$	$- 5.1$	
12	63	9.8		10.6	$+0\ 27$	$+ 5.7$		27	133	11.5		13.1	$+0\ 20$	$- 6.7$	
13	66	9.9		10.7	$+0\ 48$	$+16.5$		28	137	11.6		13.2	$+0\ 19$	$+10.0$	
14	68	10.0		10.8	$+1\ 11$	-27.2	*	29	143	11.8		13.2	$+0\ 36$	$- 3.7$	
15	75	10.1		11.1	$+0\ 53$	$- 5.9$		30	155	12.0		13.6	$-0\ 6$	$- 1.1$	

* (11 + 14) = BD. $+ 25^\circ$ 2055, $9^M.5$.

$$M = 8.9 + 0.024\ (G - 24.2).$$

3425

X Hydrae

$9^h\ 28^m\ 35^s$ (1855.0) $-14^0\ 2'.8$

Max. $= 2\,413\,657^d$ (7 Apr. 1896) $+ 305^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	8^M2	8^M0	7^M9	$+1^m48^s$	$- 9'.5$		26	126	10^M2		10^M9	$-0^m\ 9^s$	$+11'.3$	
2	21	8.5	8.6	8.5	$+0\ 32$	-21.8		27	130	10.3	10^M	11.0	$+1\ 22$	$+26.0$	
3	31	8.7	9.0	8.7	$+0\ 43$	$+12.6$		28	137	10.4	9.8	11.1	$+1\ 42$	$- 6.6$	
4	32	8.7	8.5	8.8	$+0\ 42$	$- 7.0$		29	143	10.5	10	11.3	$+1\ \ 0$	$- 3.3$	
5	35	8.8	9.1	8.8	$-1\ 48$	$+18.5$		30	149	10.6		11.4	$-0\ 20$	$- 5.7$	*
6	42	8.9	9.0	9.0	$-0\ 57$	-20.9		31	149	10.6		11.4	$-0\ 35$	-15.8	
7	54	9.1	9.1	9.3	$+1\ 14$	$+ 3.0$		32	152	10.6		11.4	$+0\ 32$	$+14.4$	
8	57	9.1	9.4	9.4	$-0\ 51$	$+17.6$		33	156	10.7		11.5	$+1\ \ 7$	$- 9.4$	
9	59	9.1	9.2	9.4	$+1\ \ 0$	$+15.7$		34	163	10.8		11.6	$+0\ 46$	$+ 5.1$	
10	63	9.2	9.6	9.5	$+1\ 17$	$+10.2$		35	165	10.8		11.7	$-0\ 54$	$- 8.9$	
11	68	9.3	9.3	9.6	$+1\ \ 2$	$+12.2$		36	185	11.2		12.0	$+0\ 43$	$+ 7.0$	
12	72	9.3	9.2	9.7	$+0\ \ 5$	$- 6.7$		37	194	11.3		12.2	$-0\ \ 3$	-10.1	
13	79	9.5	9.5	9.9	$+0\ 51$	$+ 8.6$		38	200	11.4		12.3	$+0\ 38$	$- 7.8$	
14	80	9.5	9.4	9.9	$-1\ 42$	$- 1.9$		39	201	11.4		12.3	$+0\ 36$	$- 8.8$	
15	84	9.5	9.6	10.0	$-1\ 10$	$- 0.3$		40	201	11.4		12.8	$-0\ 31$	$+14.4$	
16	89	9.6	9.8	10.1	$-1\ 20$	$+ 1.2$		41	209	11.5		12.5	$-0\ 39$	$+ 5.4$	
17	93	9.7	9.4	10.2	$+1\ 18$	$+ 8.6$		42	212	11.6		12.5	$+0\ 20$	$+11.4$	
18	103	9.8	9.6	10.4	$+0\ 22$	$+24.0$		43	221	11.7		12.7	$+0\ 16$	$+ 2.7$	
19	106	9.9	10	10.5	$-1\ 21$	$+12.7$		44	225	11.8		12.8	$+0\ 28$	$- 5.5$	
20	109	9.9	9.8	10.6	$+1\ 46$	-11.7		45	227	11.8		12.8	$+0\ \ 9$	$+ 1.9$	
21	114	10.0		10.7	$-0\ 45$	$+20.8$		46	241	12.1		13.0	$-0\ 17$	$- 0.2$	
22	117	10.1	10	10.7	$-0\ 42$	$+21.9$		47	246	12.1		13.1	$-0\ \ 3$	$- 0.7$	
23	119	10.1	9.8	10.8	$-1\ 36$	$+ 3.6$									
24	122	10.1		10.8	$+0\ 34$	$+18.5$									
25	125	10.2		10.9	$-0\ 24$	$- 6.4$	*								

* $(25 + 30) =$ BD. -14^0 2890, 10^M.

$$M = 9.4 + 0.016\ (G - 75.2).$$

4471

T Canum Venaticorum*

$12^h 23^m 1^s$ (1855.0) $+32^0 18'.3$

Max. $= 2 414 048^d$ (3 Maii 1897) $+ 287^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$7^M.5$	$7^M.4$	$7^M.2$	$+0^m 48^s$	$- 5'.0$	PD. $7^M.72$ GW	14	76	9^M5	$9^M.3$	$10^M.6$	$-1^m 51^s$	$-23'.9$	
2	12	7.8	7.9	7.7	$-1\ 6$	$- 6.4$		15	78	9.6	9.5	10.7	$-1\ 24$	$+25.1$	
3	25	8.2	8.2	8.2	$+3\ 56$	$+31.1$									
4	45	8.7	8.7	9.1	$+0\ 5$	-30.6		16	86	9.8		11.1	$+0\ 43$	-12.8	
5	46	8.7	8.6	9.1	$+3\ 12$	-24.4		17	90	9.9		11.3	$+1\ 24$	$+ 2.9$	
								18	97	10.1		11.7	$+0\ 11$	-15.0	
6	56	9.0		9.6	$+3\ 11$	$+32.1$	**	19	100	10.2		11.8	$+0\ 58$	$+ 3.6$	
7	57	9.0	9.1	9.6	$+1\ 24$	$+30.9$		20	105	10.3		12.1	$+0\ 10$	$+ 4.4$	
8	58	9.1		9.7	$+3\ 11$	$+32.4$	**								
9	61	9.1	9.3	9.7	$-1\ 42$	$+10.2$		21	112	10.5		12.5	$-0\ 44$	$- 2.3$	
10	63	9.2	9.2	9.9	$+1\ 28$	-29.3		22	117	10.7		12.8	$-0\ 46$	$+10.8$	
								23	126	10.9		13.3	$+0\ 38$	$+ 0.6$	
11	66	9.3	9.1	10.1	$+0\ 18$	-26.8		24	135	11.1		13.8	$-0\ 51$	-12.3	
12	67	9.3	9.3	10.1	$-1\ 47$	$+25.7$							$+1\ 4$	$- 2.5$	***
13	68	9.3	9.4	10.2	$+1\ 0$	-11.7									

* Regio huius chartae nebulosa apparet

** $(6 + 8) =$ BD. $+ 32^0$ 2255, $8^M.4$, $= \Sigma$ 1653, HP. $8^M.8$

*** $10^M.2$, 28 Martii 1901; a 3 Junii 1901 non amplius visa.

$$M = 8.7 + 0.027\ (G - 44.7).$$

4573

RU Virginis*

$12^h\ 39^m\ 56^s$ (1855.0) $+4^0\ 56'.5$

Max. $= 2\,413\,314^d$ (30 April. 1895) $+ 440^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
I			6^M7	6^M7	$+0^m32^s$	$-34'.6$	35 Virginis PD. 6^M56 G
2	0	8^M2	8.3	8.0	$+0\ 45$	-41.6	
3	9	8.5	8.4	8.5	$-1\ 58$	-37.4	
4	17	8.7 }	8.3	8.9	$+2\ 17$	-19.8	
5	20	8.8 }		9.1	$+2\ 17$	-19.5	
6	22	8.9	8.8	9.2	$-1\ 49$	$-\ 8.8$	
7	27	9.0	9.0	9.5	$-1\ 55$	$+13.1$	
8	30	9.1	9.3	9.7	$+2\ \ 2$	$+\ 4.2$	
9	32	9.2	9.2	9.8	$+0\ 56$	$-\ 2.1$	
10	35	9.3	9.3	9.9	$-1\ 33$	-23.1	
11	38	9.4	9.5	10.1	$-1\ 52$	$+18.2$	
12	42	9.5	9.5	10.3	$-0\ 38$	-17.7	
13	44	9.6	9.5	10.5	$-0\ 25$	$+\ 0.8$	
14	46	9.6	9.5	10.6	$-1\ 17$	$+\ 8.8$	
15	49	9.7	9.5	10.7	$-0\ 17$	$+\ 0.6$	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
16	56	10^M0	9^M5	11^M1	$+1^m49^s$	$-\ 7'.1$	
17	59	10.1	9.5	11.3	$+0\ 53$	-23.2	
18	59	10.1		11.3	$+0\ 48$	-11.4	
19	62	10.2		11.5	$+0\ 15$	$+10.5$	
20	66	10.3		11.7	$-0\ 24$	-14.8	
21	70	10.4		11.9	$-0\ 53$	-14.9	
22	72	10.5		12.0	$+0\ 57$	$+\ 2.3$	
23	76	10.6		12.2	$-0\ 31$	$-\ 8.1$	
24	77	10.6		12.3	$-1\ \ 1$	$+12.3$	
25	82	10.8		12.6	$-1\ \ 1$	$+12.0$	
26	87	11.0		12.8	$-0\ 17$	-12.6	
27	89	11.0		12.9	$-0\ 26$	$+12.6$	
28	93	11.1		13.1	$-0\ \ 2$	$-\ 3.6$	
29	95	11.2		13.2	$+0\ \ 7$	$-\ 0.1$	
30	102	11.4		13.6	$-0\ 41$	$+\ 6.6$	

* Regio huius chartae nebulosa apparet.

$$M = 8.8 + 0.032\ (G - 19.6).$$

5174

RS Virginis

$14^h 20^m 1^s$ (1855.0) $+ 5^0 19'.9$

Max. $= 2 411 510^d$ (22 Maii 1890) $+ 355^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$8^M.0$	$7^M.8$	$7^M.6$	-1^m21^s	$+10'.9$		14	94	$10^M.3$		$11^M.3$	-1^m11^s	$-21'.7$	
2	6	8.1	8.0	7.8	$-4\ 15$	-23.6		15	96	10.4		11.4	$-0\ 34$	-16.2	
3	15	8.4	8.5	8.1	$+1\ 24$	$+32.6$									
4	18	8.4	8.4	8.2	$0\ \ 0$	$+35.6$		16	104	10.6		11.8	$+0\ 15$	$+ 0.7$	
5	21	8.5	8.5	8.3	$+0\ 41$	-27.6		17	110	10.7		12.1	$-0\ 39$	$- 8.9$	
								18	114	10.8		12.3	$+0\ 29$	$- 6.2$	
6	60	9.5	9.5	9.9	$+2\ \ 6$	-19.9		19	117	10.9		12.4	$+0\ 18$	$+12.7$	
7	69	9.7	9.5	10.2	$-0\ 27$	-22.0		20	119	10.9		12.5	$-1\ 10$	-11.1	
8	71	9.7	9.5	10.3	$+1\ 33$	-16.3									
9	77	9.9	9.5	10.5	$+1\ 27$	-21.4		21	130	11.2		13.1	$+0\ \ 6$	$- 8.4$	
10	80	10.0	9.5	10.7	$+0\ 45$	$+26.1$		22	130	11.2		13.1	$-0\ \ 8$	$+ 4.2$	
								23	135	11.3		13.4	$-0\ 21$	$- 3.7$	
11	83	10.0		10.8	$-0\ 50$	$+ 8.2$		24	135	11.3		13.4	$-0\ \ 3$	$+ 9.0$	
12	85	10.1	9.5	10.9	$+1\ \ 6$	-21.3		25	137	11.4		13.5	$-0\ 17$	$- 1.5$	
13	90	10.2		11.1	$+0\ 12$	$+12.2$									

$$M = 8.5 + 0.025\ (G - 21).$$

5405

RT Librae

$14^h 58^m 14^s$ (1855.0) $-18^0 10'.0$

Max. $= 2\,413\,035^d$ (25 Iulii 1894) $+ 252^d$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			$7^M.5$	$7^M.9$	-0^m13^s	$-38'.6$	
2	0	$8^M.5$	8.7	8.6	+2 10	−29.9	
3	3	8.6	8.6	8.7	+0 26	+38.1	
4	5	8.6	8.9	8.8	−0 12	−34.6	
5	9	8.7	8.7	9.0	−1 6	+ 6.5	
6	9	8.7	8.9	9.0	−0 5	−21.9	
7	14	8.8	9.0	9.1	−1 31	+ 8.8	
8	28	9.2	9.5	9.6	−1 1	− 6.8	
9	30	9.2	9.5	9.7	+2 4	+15.5	
10	35	9.3	9.3	9.9	+1 39	+19.8	
11	38	9.4	9.5	10.0	+0 38	− 4.8	
12	41	9.5	9.8	10.1	+1 39	−17.8	
13	54	9.8	9.8	10.6	+1 33	−17.6	
14	55	9.8	9.6	10.6	−1 18	+21.8	
15	55	9.8	10	10.6	−1 56	−29.3	
16	58	9.9	9.7	10.7	−1 3	−19.6	
17	62	10.0	9.8	10.9	−1 39	− 3.1	
18	65	10.0	9.8	11.0	+0 33	+ 3.9	
19	68	$10^M.1$	10^M	$11^M.1$	$-1^m 9^s$	−11'.7	
20	71	10.2	10	11.3	−1 14	+ 5.8	
21	73	10.2		11.4	−0 51	+ 0.7	
22	73	10.2		11.4	−0 49	−12.6	
23	84	10.5		11.8	+0 24	− 1.2	
24	88	10.6		12.0	−0 44	− 0.7	
25	90	10.6		12.1	+0 14	+ 6.3	
26	93	10.7		12.3	−0 26	+15.3	
27	100	10.8		12.6	−0 20	−11.4	
28	100	10.8		12.6	−0 25	+ 6.3	
29	104	10.9		12.8	−0 32	+15.2	
30	105	10.9		12.9	+0 46	−12.4	
31	107	11.0		13.0	−0 9	− 5.6	
32	107	11.0		13.0	+0 17	−11.7	
33	112	11.1		13.2	−0 1	− 6.0	
34	114	11.1		13.4	+0 13	− 2.8	

$$M = 9.3 + 0.023\,(G - 33.6).$$

5511

RS Librae

$15^h 15^m 52^s$ (1855.0) $-22^0 23'.5$

Max. $= 2 410 102^d$ (14 Julii 1886) $+ 219^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$8^M.4$	$8^M.5$	$7^M.7$	$+ 2^m 26^s$	$+23'.9$		26	48	$10^M.1$		$11^M.0$	$-0^m 11^s$	$+24'.2$	CoD. $9^M.8$
2	2	8.5	8.5	7.9	$+ 0\ 33$	-27.0	CoD. $8^M.0$	27	49	10.1		11.0	$-1\ 58$	$+11.3$	„ 10
3	5	8.6	8.5	8.0	$- 1\ 36$	$+ 0.8$	„ 8.0	28	51	10.2		11.1	$-0\ 26$	$- 6.7$	„ 10
4	7	8.7	8.8	8.3	$- 0\ \ 8$	$+11.3$	„ 8.5	29	52	10.2		11.2	$-0\ \ 4$	-27.2	„ 9.8
5	9	8.7	8.5	8.5	$- 1\ 56$	$- 3.7$	„ 8.3	30	53	10.2	$9^M.8$	11.2	$+1\ 48$	$- 7.4$	„ 9.8
6	13	8.9	8.8	8.8	$- 0\ 25$	$+33.5$		31	55	10.3		11.3	$+1\ \ 5$	-14.1	„ 9.9
7	14	8.9	9.0	8.9	$+ 1\ \ 4$	-24.6	„ 8.7	32	56	10.3		11.4	$+1\ 54$	-10.8	„ 9.9
8	16	9.0	9.0	9.0	$+ 0\ 36$	$+ 0.3$	„ 8.6	33	59	10.4		11.5	$+0\ \ 1$	-23.9	„ 10
9	19	9.1	9.1	9.3	$- 1\ 52$	$+20.8$	„ 9.1	34	59	10.4		11.5	$+1\ 11$	-12.8	„ 10
10	22	9.2	9.3	9.5	$- 1\ 46$	-30.7	„ 9.1	35	61	10.5		11.6	$+1\ \ 8$	-18.7	„ 9.8
11	24	9.2	9.4	9.6	$- 0\ 59$	$+31.1$		36	64	10.6		11.8	$+0\ 43$	$+ 2.9$	
12	26	9.3	9.2	9.8	$- 1\ 20$	-31.0	„ 9.4	37	67	10.7		12.0	$+1\ 22$	$- 2.9$	„ 10
13	28	9.4	9.3	9.9	$- 1\ 35$	-11.4	„ 9.2	38	69	10.8		12.1	$+1\ \ 0$	$+ 4.5$	
14	33	9.6	9.5	10.2	$- 1\ 41$	$- 0.7$	„ 9.5	39	70	10.8		12.2	$-0\ 29$	$- 8.9$	
15	33	9.6	9.4	10.2	$+ 1\ 15$	$+ 8.4$	„ 9.6	40	70	10.8		12.2	$+0\ 44$	$- 3.1$	„ 10
16	34	9.6	9.5	10.3	$+ 2\ \ 0$	-29.1	„ 9.3	41	73	10.9		12.4	$-0\ 50$	$- 3.0$	
17	37	9.7	9.8	10.5	$- 1\ 30$	$+ 6.0$	„ 9.5	42	74	10.9		12.5	$+1\ 31$	$+ 2.2$	„ 10 dpl.
18	38	9.7	9.8	10.5	$+ 0\ 43$	$+12.8$	„ 9.6	43	76	11.0		12.6	$-0\ 43$	$+ 6.0$	
19	39	9.8		10.6	$+ 1\ 24$	$+12.9$	„ 9.7	44	77	11.1		12.7	$-0\ 33$	-12.8	
20	40	9.8		10.6	$- 0\ 21$	$- 9.0$	„ 10	45	79	11.1		12.9	$-0\ 11$	-13.8	
21	40	9.8		10.6	$+ 0\ 46$	$+ 9.7$	„ 9.7	46	81	11.2		13.1	$-0\ 33$	$+ 6.3$	
22	42	9.9		10.7	$- 1\ 47$	$+ 5.7$	„ 9.9	47	81	11.2		13.1	$+1\ \ 4$	-10.2	„ 10 dpl.
23	45	10.0		10.9	$+ 1\ \ 5$	$+ 6.0$	„ 10	48	82	11.2		13.2	$-0\ 11$	$+ 1.2$	
24	45	10.0		10.9	$+ 1\ 20$	$+18.4$	„ 10								
25	47	10.0		10.9	$- 1\ \ 0$	$+ 7.2$	„ 10								

$$M = 9.3 + 0.034 (G - 25.5).$$

5566

RU Librae

$15^h 25^m 10^s$ (1855.0) $-14^o 50'.0$

Max. $= 2\,413\,357^d$ (12 Iunii 1895) $+ 316^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$4^M.0$	$4^M.0$	$+2^m15^s$	$+32'.1$	γ Librae	23	96	$10^M.5$		$11^M.5$	$+0^m21^s$	$+12'.0$	
2	0	$8^M.1$	7.9	7.6	$-2\ 12$	-30.6		24	96	10.5		11.5	$-0\ 15$	-11.5	
3	8	8.3	8.2	8.1	$-3\ \ 3$	-21.6		25	103	10.7		11.8	$-0\ 38$	$+\ 8.0$	
4	13	8.4	8.7	8.4	$-0\ 12$	$-\ 4.2$		26	104	10.7		11.8	$+0\ 17$	-11.4	
5	15	8.5	8.3	8.5	$+0\ 50$	$+27.5$		27	108	10.8		11.9	$+1\ \ 2$	$-\ 3.4$	
6	20	8.6	8.6	8.7	$-0\ 38$	-17.4		28	115	11.0		12.1	$+0\ 43$	$-\ 9.3$	
7	23	8.7	8.6	8.8	$+0\ 27$	$+24.2$		29	120	11.1		12.2	$-0\ \ 8$	$+\ 5.9$	
8	31	8.9	9.4	9.2	$-0\ 59$	$+19.3$		30	125	11.2		12.4	$+0\ 21$	-11.3	
9	33	8.9	9.1	9.3	$-1\ 59$	-26.4		31	128	11.3		12.5	$+0\ 14$	$+\ 7.9$	
10	42	9.1	9.3	9.6	$+0\ 36$	-20.5		32	131	11.4		12.6	$+0\ 37$	$+14.7$	
11	45	9.2	9.2	9.8	$+1\ \ 2$	$-\ 8.8$		33	135	11.5		12.7	$-0\ 36$	$+\ 0.2$	
12	52	9.4	9.4	10.0	$-1\ 56$	$+\ 5.3$		34	139	11.6		12.7	$+0\ 21$	$+\ 5.6$	
13	56	9.5	9.5	10.2	$+0\ 42$	$+12.7$		35	140	11.6		12.8	$+1\ \ 2$	$-\ 8.4$	
14	62	9.6	9.5	10.4	$-1\ 22$	$+14.4$		36	142	11.6		12.8	$+0\ 51$	$-\ 3.3$	
15	63	9.7	9.6	10.4	$-1\ 13$	$+\ 9.3$		37	143	11.7		12.8	$-0\ 42$	$+\ 6.7$	
16	64	9.7		10.5	$-0\ 55$	$-\ 2.1$		38	148	11.8		12.9	$+0\ 27$	$+11.4$	
17	70	9.8		10.6	$-1\ \ 2$	$+12.7$		39	150	11.8		13.0	$+0\ 55$	$-\ 0.6$	
18	71	9.9		10.7	$-0\ \ 2$	-11.8		40	162	12.1		13.3	$-0\ \ 9$	$+14.9$	
19	75	10.0		10.8	$+0\ 28$	-10.9		41	165	12.2		13.3	$-0\ 40$	$-\ 9.6$	
20	85	10.2	9.8	11.1	$+1\ 28$	$-\ 7.9$		42	169	12.3		13.4	$+0\ 50$	$+11.1$	
21	88	10.3		11.2	$+1\ \ 7$	-13.8		43	181	12.6		13.6	$-0\ 30$	$+\ 5.7$	
22	91	10.4	10	11.4	$+1\ 41$	-10.0									

$$M = 9.2 + 0.025\,(G - 44.2).$$

5688

R Librae

$$15^{h} 45^{m} 24^{s} \quad (1855.0) \quad -15^{0} 48'.1$$

Max. $= 2\,399\,791^{d}$ (21 Aprilis 1858) $+ 242^{d}.5$ E.

Num.	Gradus	Magn.	BD.	HP.	$\mathit{\Delta\alpha}$	$\mathit{\Delta\delta}$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\mathit{\Delta\alpha}$	$\mathit{\Delta\delta}$	Notae
1			$4^{M}.8$	$4^{M}.3$	$+0^{m}12^{s}$	$-29'.9$	θ Librae	16	107	$10^{M}.7$		$11^{M}.7$	$+0^{m}36^{s}$	$+14'.7$	
2	0	$8^{M}.6$	9.1	8.5	$+1\ 24$	$-\ 7.6$		17	113	10.8		11.9	$-0\ 38$	$+\ 5.5$	
3	19	9.0	9.0	9.3	$-1\ 49$	$+19.7$		18	116	10.8		12.0	$-0\ 9$	$+\ 3.1$	
4	33	9.3	9.3	9.7	$-0\ 17$	$+30.2$		19	119	10.9		12.1	$-0\ 59$	$-\ 3.1$	
5	37	9.3	9.4	9.9	$-0\ 29$	-19.7		20	122	10.9		12.2	$+0\ 36$	$+11.9$	
6	39	9.4	9.3	9.9	$-0\ 59$	-12.4		21	124	11.0		12.2	$+0\ 54$	$+14.4$	
7	48	9.5	9.8	10.2	$+0\ 46$	$+20.2$		22	127	11.0		12.3	$-0\ 4$	$-\ 2.2$	
8	50	9.6	9.4	10.3	$+1\ 25$	$-\ 5.3$		23	129	11.1		12.4	$-1\ 5$	0.0	
9	55	9.7	9.4	10.4	$-0\ 47$	-26.7		24	129	11.1		12.4	$-0\ 52$	$+\ 5.3$	
10	57	9.7	9.6	10.4	$-1\ 28$	$+18.5$		25	134	11.2		12.6	$-0\ 15$	$-\ 3.7$	
11	59	9.7	9.5	10.5	$-0\ 52$	$+14.1$		26	136	11.2		12.7	$+0\ 6$	$-\ 5.9$	
12	70	10.0		10.8	$-0\ 20$	-13.8		27	137	11.2		12.7	$-0\ 6$	$+\ 2.6$	
13	74	10.0		10.9	$+0\ 55$	-14.4		28	142	11.3		12.9	$-0\ 42$	$-\ 6.3$	
14	91	10.4		11.3	$-0\ 58$	$-\ 7.9$		29	148	11.4		13.1	$-0\ 13$	$-\ 3.7$	
15	100	10.5		11.6	$-0\ 30$	$-\ 9.8$		30	154	11.6		13.4	$-0\ 5$	$+\ 3.2$	

$$M = 9.4 + 0.019\ (G - 40.8).$$

5775

U Serpentis

$16^h\ 0^m\ 23^s$ (1855.0) $+10^0\ 19'.4$

Max. $= 2\,410\,176^d$ (26 Septemb. 1886) $+ 240^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$6^M.2$	$5^M.6$	$+0^m20^s$	$- 2'.5$	PD. $5^M.96$ GW, 45 Serp.	21	100	10^M6		$11^M.3$	$+0^m22^s$	$+ 7.8$	
2	0	$7^M.4$	7.3	6.8	$+0\ 49$	$+ 8.9$	„ 7.08 W, 46 „	22	102	10.6		11.4	$-0\ 26$	$+11.3$	
3	4	7.5	7.5	7.0	$-1\ 25$	$+ 0.6$	„ 7.27 W, *	23	105	10.7		11.6	$+0\ 41$	-10.2	
4	18	8.0	8.0	7.6	$-2\ 29$	-17.2		24	110	10.9		11.8	$-0\ 36$	$+ 1.8$	
5	30	8.3	8.5	8.1	$+2\ 27$	$+30.5$		25	113	11.0		11.9	$+0\ 20$	$- 6.1$	
6	50	9.0	9.4	9.0	$-1\ 37$	$+ 1.1$		26	113	11.0		11.9	$+0\ 14$	$- 3.6$	
7	51	9.0	9.3	9.1	$+1\ 46$	-17.9		27	119	11.2		12.2	$+0\ 47$	$- 1.8$	
8	55	9.1	9.1	9.2	$+0\ 15$	$+23.0$		28	121	11.3		12.3	$-0\ 25$	$+ 9.6$	
9	58	9.2	9.1	9.4	$+1\ 8$	$+ 1.8$		29	125	11.4		12.5	$-0\ 13$	$+11.1$	
10	59	9.3	9.2	9.4	$+2\ 21$	$+18.0$		30	129	11.5		12.7	$+0\ 8$	$+11.2$	
11	63	9.4	9.3	9.6	$-0\ 8$	-24.5		31	134	11.7		13.0	$+0\ 6$	$+ 5.7$	
12	67	9.5		9.8	$-1\ 4$	$+ 7.8$		32	138	11.8		13.2	$+0\ 32$	$- 0.6$	
13	72	9.7		10.0	$+0\ 11$	$+17.1$		33	138	11.8		13.2	$+0\ 37$	$+ 8.0$	
14	74	9.7		10.1	$+1\ 9$	-23.5		34	140	11.9		13.3	$+0\ 37$	$+15.6$	
15	75	9.8		10.1	$-1\ 5$	$+15.3$		35	140	11.9		13.3	$+0\ 28$	$+14.1$	
16	78	9.9		10.3	$+0\ 41$	-18.6		36	140	11.9		13.3	$+0\ 25$	$- 9.3$	
17	79	9.9	9.4	10.4	$+1\ 17$	$+ 3.9$		37	142	11.9		13.4	$+0\ 26$	-12.3	
18	90	10.3		10.9	$+0\ 2$	-12.2		38	147	12.1		13.6	$+0\ 45$	$- 0.2$	
19	99	10.5	9.5	11.3	$+0\ 9$	-23.0		39	152	12.2		13.9	$-0\ 53$	$- 0.1$	
20	99	10.5		11.3	$+0\ 34$	$+ 2.1$									

* A. G. C. Leipzig I 5598: magnitudo $8^M.0$, $8^M.2$.

M $= 8.7 + 0.032$ (G $- 41.3$).

5796a

RU Herculis

$16^h\ 4^m\ 10^s$ (1855.0) $+25^0\ 27'.1$

Max. $= 2\,414\,355^d$ (6 Martii 1898) $+ 482^d$ E.

Num.	Grad.	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Grad.	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
I			$7^M.1$	$7^M.5$	$-0^m\ 7^s$	$+24'.8$	PD. $7^M.72$ GW—	21	52	$10^M.4$		$11^M.5$	$-1^m\ 5^s$	$+ 9'.1$	B. n. 12
2	0	$8^M.3$	8.3	8.3	-2 48	- 9.3	P. 8.9 u*	22	53	10.4		11.6	-0 17	- 3.2	„ 13
3	4	8.5	8.5	8.6	+1 9	- 6.3	„ 8.7 a, B. n. 29**	23	54	10.5		11.6	-1 6	+ 8.0	„ 11
4	10	8.7	8.4	8.9	-1 22	- 8.3	„ 8.9 t, „ 10	24	54	10.5		11.6	+1 8	+10.1	„ 28
5	12	8.8	8.8	9.0	+1 13	+20.9	„ 9.4 s, „ 30	25	55	10.5		11.7	+0 24	+ 6.9	P. $11^M.5$ e, „ 21
6	15	8.9	9.0	9.2	+1 38	+ 9.7	„ 9.7 b, „ 31	26	58	10.6		11.9	+0 9	-12.7	„ 18
7	18	9.0	9.2	9.4	+1 11	-26.0		27	61	10.8		12.1	+0 27	-13.4	„ 22
8	23	9.2	9.3	9.8	-0 19	-39.5		28	64	10.9		12.2	+0 46	-15.1	dpl. „ 25
9	27	9.4	9.5	10.0	-0 42	+26.6	„ 10.3 z	29	66	11.0		12.3	+0 14	+ 3.6	„ 12.2 h, „ 19
10	29	9.5	9.5	10.1	-1 52	-15.1	„ 2	30	66	11.0		12.3	-0 4	+ 6.3	„ 11.8 f, „ 15
11	30	9.5	9.4	10.2	+0 57	-21.8		31	73	11.2		12.7	+0 43	+ 0.7	„ 24
12	33	9.6	9.5	10.4	+0 17	+23.0	„ 10.7 x	32	75	11.3		12.8	+0 7	- 0.6	„ 12.1 g
13	36	9.8	9.5	10.6	+1 31	-26.9		33	80	11.5		13.1	-0 51	+ 4.2	
14	38	9.8		10.7	+0 35	+12.9	„ 11.2 d, „ 23	34	83	11.6		13.2	+0 4	- 3.6	„ 12.5 m
15	41	10.0	9.5	10.9	-0 7	-20.9	„ 10.9 w	35	90	11.9		13.6	+0 2	- 3.1	„ 12.9 n
16	41	10.0		10.9	+0 20	+11.4	„ 11.1 c, „ 20						-0 13	- 5.3	„ 13.6 p
17	45	10.1	9.5	11.1	+1 18	-27.6							-0 15	0.0	„ 14.8 w'
18	47	10.2		11.2	+0 2	- 7.9	„ 11.4 q, „ 17						-0 7	- 0.2	„ 15.4 t'
19	50	10.3		11.4	-0 6	- 9.0	„ 14								
20	50	10.3		11.4	+0 56	+ 8.6	„ 26								

* Parkhurst, Researches in Stell. Photom. 1906, p. 74, Tab. 45 (magnitudines et litterae).
** Bellamy, Monthly Notices, vol. LXII pp. 74—75, Tab. I (numeri).

$$M = 8.9 + 0.040 \, (G - 14.3).$$

5856

W Ophiuchi

$16^h\ 13^m\ 36^s$ (1855.0)   − $7^0\ 21'.0$

Max. = $2\,408\,276^d$ (14 Iulii 1881) + $329^d.8$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$(8^M.1)$	$7^M.3$	$7^M.7$	$+1^m36^s$	+29'.3		23	109	$10^M.5$		$12^M.2$	$+0^m\ 8^s$	−15'.8	
2	30	8.7	8.9	9.2	+1 34	− 2.1		24	109	10.5		12.2	+0 37	+ 5.9	
3	36	8.9	8.9	9.6	+0 34	+33.6		25	116	10.6		12.3	−0 10	−12.6	
4	43	9.0	8.9	9.9	+1 27	+19.9		26	119	10.7		12.4	−0 54	+ 3.2	
5	51	9.2	9.2	10.3	+0 48	+ 4.0		27	120	10.7		12.4	+0 5	− 1.2	
6	55	9.3	9.2	10.4	−0 46	−23.5		28	125	10.8		12.5	+0 13	− 3.0	
7	59	9.4	9.4	10.6	+0 44	−14.4		29	131	11.0		12.7	+0 59	+ 0.1	
8	63	9.5	9.5	10.8	−1 38	+25.7		30	135	11.1		12.7	+0 48	+ 0.6	
9	70	9.6	9.6	11.0	−1 20	+ 2.3		31	140	11.2		12.8	+0 38	− 2.2	
10	73	9.7		11.1	−0 51	−23.8	dpl.	32	144	11.2		12.9	+0 11	+ 6.0	
11	75	9.7	10	11.2	−0 37	−21.8		33	147	11.3		13.0	−0 1	+13.5	
12	76	9.8	9.5	11.2	+0 8	−23.5		34	148	11.3		13.0	−0 4	+12.6	
13	76	9.8	9.6	11.2	+0 28	+27.6		35	148	11.3		13.0	−0 4	+12.3	
14	78	9.8	10	11.3	−0 52	−13.0		36	150	11.4		13.0	+0 51	− 4.8	
15	79	9.8	10	11.4	−0 23	−21.7		37	153	11.4		13.1	+0 35	− 0.9	
16	80	9.8	9.9	11.4	+0 40	−17.5		38	154	11.5		13.1	+0 8	+ 8.8	
17	83	9.9	10	11.5	+0 45	+23.1		39	161	11.6		13.2	−0 23	+ 5.2	
18	86	10.0	10	11.6	0 0	+26.6		40	165	11.7		13.3	−0 13	− 2.5	
19	88	10.0	10	11.7	+0 40	−23.2		41	171	11.8		13.4	+0 49	− 3.0	
20	94	10.1		11.8	−0 29	+22.0		42	179	12.0		13.5	+0 47	− 3.0	
21	98	10.2		11.9	−0 9	+ 2.2									
22	105	10.4		12.1	+0 15	− 4.2									

$$M = 9.4 + 0.022\ (G − 60.0).$$

5903

Y Scorpii

$16^h\ 20^m\ 59^s$ (1855.0) $-19^0\ 1'.4^*$

Max. $= 2\,407\,847^d$ (11 Maii 1880) $+ 349^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1			$8^M.0$		$+0^m 17^s$	$+40'.3$		11	43	$10^M.6$		$13^M.1$	$-0^m 23^s$	$+\ 7.3$	
2			8.8		$-2\ 45$	$+13.4$		12	43	10.6		13.1	$-0\ 46$	$+\ 8.8$	
3	0	$9^M.3$	9.3	$11^M.0$	$-0\ 48$	$+\ 2.8$		13	46	10.7		13.3	$+1\ \ 5$	$+\ 4.3$	
4	3	9.4	9.7	11.2	$-1\ 35$	$-\ 5.1$		14	49	10.8		13.4	$-0\ 21$	$+\ 4.5$	
5	9	9.6	9.8	11.5	$-1\ 39$	$+10.5$		15	51	10.8		13.5	$-0\ \ 4$	$+\ 3.0$	
6	16	9.8		11.8	$+0\ \ 7$	$-\ 2.3$									
7	20	9.9	9.5	12.0	$-0\ \ 1$	$+25.5$									
8	21	9.9		12.1	$+0\ \ 5$	$+14.4$									
9	37	10.4		12.8	$-0\ 41$	$+\ 3.6$									
10	39	10.5		12.9	$+1\ 29$	$-\ 4.1$									

* Locus erroneus in Chandler II et III.

$$M = 9.3 + 0.03\ G?$$

5928a

SS Herculis

$16^h 25^m 52^s$ (1855.0) $+ 7^0 10'.2$

Max. $= 2\,416\,951^d$ (15 April. 1905) $+ 103^d.9$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$8^M.1$	$8^M.0$	$7^M.7$	$+0^m 4^s$	$-15'.1$		18	62	$10^M.1$	$9^M.5$	$10^M.8$	$-1^m 50^s$	$+ 3'.0$	
2	4	8.3	8.0	7.9	$-1\ 39$	$+ 2.2$		19	64	10.2	9.5	10.9	$-1\ 36$	$+ 0.9$	
3	9	8.4	9.4	8.1	$+2\ 6$	$- 0.9$		20	64	10.2		10.9	$+0\ 37$	$- 2.3$	
4	12	8.5	8.7	8.2	$+0\ 7$	-19.1									
5	18	8.7	9.0	8.6	$+0\ 33$	$+14.2$		21	68	10.3		11.2	$-0\ 45$	$- 6.3$	
								22	71	10.4		11.3	$-0\ 5$	$+ 3.3$	
6	29	9.1	9.0	9.1	$+1\ 6$	$+11.4$		23	72	10.4		11.4	$+0\ 4$	$+12.6$	
7	35	9.2	9.5	9.4	$-2\ 0$	-28.7		24	74	10.5		11.5	$+0\ 15$	$+ 2.7$	
8	38	9.3	9.3	9.6	$-2\ 6$	$+ 1.8$		25	76	10.6		11.6	$+0\ 41$	$- 6.7$	
9	42	9.5	9.5	9.8	$-2\ 14$	-23.1									
10	44	9.5	9.5	9.9	$-0\ 12$	$+26.3$		26	78	10.6		11.7	$-0\ 43$	-11.9	
								27	80	10.7		11.8	$+0\ 50$	$+ 6.3$	
11	47	9.6	9.5	10.1	$+0\ 15$	-17.4		28	80	10.7		11.8	$-0\ 52$	$+11.4$	
12	49	9.7	9.4	10.2	$+0\ 22$	-29.0		29	82	10.8		11.9	$-0\ 18$	-12.7	
13	52	9.8	9.5	10.3	$+0\ 39$	-26.6		30	85	10.8		12.1	$-0\ 37$	$+ 6.8$	
14	52	9.8	9.5	10.3	$+0\ 56$	$+10.8$									
15	54	9.9	9.4	10.4	$+0\ 25$	$+15.9$	BD. $\Delta\delta = + 14'.3$	31	90	11.0		12.4	$+0\ 29$	$+ 4.2$	
								32	93	11.1		12.5	$+0\ 38$	0.0	
16	55	9.9		10.5	$-0\ 49$	$+14.4$		33	96	11.2		12.7	$-0\ 11$	-12.7	
17	55	9.9	9.3	10.5	$-1\ 26$	$+23.8$		34	104	11.5		13.2	$-0\ 10$	$- 0.8$	

$$M = 9.0 + 0.032\,(G - 27.3).$$

6207

Z Ophiuchi

$17^h\ 12^m\ 12^s$ (1855.0) $+\ 1^0\ 40'.2$

Max. $= 2\,412\,587^d$ (3 Maii 1893) $+ 352^d_{.}0$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$7^M_{.}1$	$6^M_{.}8$	$6^M_{.}9$	$-1^m 55^s$	$+14'.1$	PD. $7^M_{.}05$ GW*	23	123	$11^M_{.}0$		$11^M_{.}9$	$+0^m\ 9^s$	$-\ 4.8$	
2	5	7.3	7.2	7.1	$+1\ 36$	$-\ 5.3$	„ 7.20 GW*	24	125	11.1		12.0	$+1\ 3$	$-\ 6.6$	
3	26	7.9	7.8	8.1	$+1\ 42$	$+\ 2.4$		25	127	11.2		12.1	$+0\ 57$	$-\ 6.2$	
4	38	8.3	8.5	8.7	$-0\ 50$	-31.0									
5	53	8.8	9.0	9.3	$-2\ 42$	$+\ 9.3$		26	131	11.3		12.2	$-0\ 14$	$+\ 4.9$	
								27	136	11.5		12.4	$+0\ 46$	$-\ 3.3$	
6	57	8.9	9.0	9.5	$-2\ 21$	$+27.5$		28	138	11.5		12.5	$+0\ 7$	$+\ 5.2$	
7	63	9.1	9.3	9.8	$-0\ 57$	$+28.1$		29	142	11.6		12.6	$-0\ 11$	$+\ 5.1$	
8	69	9.3	9.3	10.0	$-1\ 24$	-16.7		30	148	11.8		12.8	$-0\ 4$	$+12.2$	
9	74	9.5	9.3	10.2	$+0\ 24$	$+\ 9.3$									
10	80	9.7	9.5	10.4	$-0\ 18$	$+17.4$		31	150	11.9		12.8	$+0\ 40$	$+11.3$	
								32	152	12.0		12.9	$-0\ 42$	$-\ 6.0$	
11	85	9.8		10.6	$-0\ 8$	$+26.7$	**	33	156	12.1		13.0	$+0\ 4$	$-\ 2.1$	
12	89	9.9	9.5	10.8	$-1\ 2$	-26.3		34	157	12.1		13.1	$-0\ 23$	$-\ 0.9$	
13	90	10.0		10.8	$-0\ 11$	$+26.2$	**	35	161	12.3		13.2	$-0\ 7$	$+\ 8.9$	
14	94	10.1	9.5	10.9	$-1\ 11$	$+12.8$									
15	95	10.2		11.0	$-1\ 10$	$+13.6$		36	165	12.4		13.3	$-0\ 5$	-11.8	
								37	167	12.4		13.4	$+0\ 20$	$+\ 8.5$	
16	96	10.2		11.0	$-0\ 14$	$+20.2$		38	169	12.5		13.5	$+0\ 36$	-12.8	
17	98	10.2	9.5	11.1	$+0\ 36$	$+\ 2.8$		39	173	12.6		13.6	$+0\ 49$	-14.9	
18	100	10.3		11.1	$+0\ 7$	-11.7		40	180	12.9		13.8	$+0\ 51$	$-\ 9.4$	
19	105	10.5	9.5	11.3	$+0\ 35$	$+11.1$									
20	110	10.6		11.5	$+1\ 1$	$+12.6$		41	183	13.0		13.9	$-0\ 29$	$-\ 2.1$	
21	117	10.8		11.7	$-0\ 13$	$+\ 1.0$									
22	118	10.9		11.8	$-0\ 1$	$+\ 8.8$									

* 2 > * 1 die 21 Iulii 1901.

** (11 + 13) = BD. + 2º 3294, $9^M_{.}5$.

$$M = 9.3 + 0.032\ (G - 68.7).$$

6225

RS Herculis

$17^h\ 15^m\ 38^s$ (1855.0) $+23^0\ 3'.9$

Max. $= 2\,413\,769^d$ (28 Iulii 1896) $+ 220^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.8$	$5^M.7$	$+2^m25^s$	$+ 2'.0$	73 Herculis PD. $5^M.95$ W+	18	53	$10^M.2$		$10^M.7$	$+0^m55^s$	$- 0'.3$	
								19	57	10.4		10.9	$+0\ 35$	$- 5.5$	
2	0	$8^M.0$	7.7	7.5	$+0\ \ 9$	$+45.9$		20	59	10.5		11.0	$-0\ \ 8$	$+12.0$	
3	11	8.5	8.3	8.2	$+0\ 23$	$+14.4$									
4	19	8.8	9.3	8.7	$+1\ \ 1$	-33.8		21	65	10.8		11.3	$-0\ 41$	-11.9	
5	22	8.9	9.1	8.9	$-0\ 43$	$- 6.2$		22	72	11.0		11.7	$-0\ 16$	$+ 4.4$	
								23	82	11.5		12.2	$-0\ 14$	$- 3.0$	
6	26	9.1	9.1	9.1	$+0\ 55$	$- 2.8$		24	86	11.6		12.4	$+0\ 28$	-13.8	
7	27	9.2	9.2	9.2	$+1\ 20$	$+13.6$		25	90	11.8		12.6	$-0\ 47$	$- 2.2$	
8	29	9.2	9.1	9.3	$-1\ 48$	$- 4.9$									
9	30	9.3		9.4	$+1\ 10$	-20.1		26	90	11.8		12.6	$-1\ \ 4$	$+12.7$	
10	32	9.4	9.3	9.5	$+0\ 44$	$- 8.8$		27	92	11.9		12.7	$+1\ \ 7$	$+ 7.8$	
								28	94	12.0		12.8	$-0\ 10$	-12.9	
11	36	9.5	9.5	9.7	$-2\ 15$	-13.2		29	96	12.1		12.9	$-0\ 43$	$+ 8.1$	
12	39	9.7	9.5	9.9	$-1\ 49$	-10.0		30	97	12.1		13.0	$+0\ 58$	$+ 5.1$	
13	39	9.7	9.5	9.9	$+1\ 28$	$+12.0$									
14	43	9.8	9.5	10.1	$+1\ 30$	$+14.8$		31	98	12.1		13.0	$+0\ 36$	-10.2	
15	45	9.9	9.5	10.2	$-1\ 33$	$+ 0.8$		32	100	12.2		13.1	$-0\ \ 8$	$- 0.3$	
								33	104	12.4		13.3	$-0\ 15$	$- 0.5$	
16	45	9.9		10.2	$+1\ 10$	-14.5		34	105	12.4		13.3	$+0\ 35$	$+ 1.8$	
17	48	10.0	9.5	10.4	$-0\ 48$	$+15.1$									

$M = 9.1 + 0.042\ (G - 25.7)$

6624

T Serpentis*

$18^h\ 21^m\ 45^s$ (1855.0) $+\ 6^0\ 12'.5$

Max. $= 2\,400\,912^d$ (16 Maii 1861) $+ 341^d.5$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			6^M5	5^M6	-0^m50^s	$- 5'.9$	PD. $6^M.04$ W
2	0	8^M1	8.1	7.5	$-0\ 47$	-32.1	
3	4	8.2	8.5	7.7	$-0\ 25$	$+32.2$	V. 8.2 n.47**
4	8	8.3	8.4	7.9	$-1\ 55$	$+ 8.0$	„ 8.4 n.1
5	14	8.5	8.6	8.2	$-1\ 42$	-13.4	
6	17	8.6	8.6	8.3	$-1\ 43$	$+14.9$	„ 8.6 n.13
7	18	8.6	8.0	8.4	$+1\ 1$	$+27.4$	
8	20	8.7	8.7	8.5	$-0\ 54$	$+18.2$	„ 8.6 n.37
9	20	8.7	8.5	8.5	$-1\ 34$	$+14.0$	„ 8.5 n.12
10	22	8.7	8.6	8.6	$-1\ 54$	$+11.8$	„ 8.6 n.9
11	23	8.8	8.7	8.6	$-1\ 9$	$+14.4$	„ 8.9 n.19
12	25	8.8	9.0	8.7	$-0\ 25$	$+ 6.9$	„ 9.1 n.58
13	25	8.8	8.6	8.7	$-1\ 12$	$+15.3$	„ 8.8 n.21
14	26	8.8	8.7	8.8	$-0\ 9$	$+29.6$	„ 9.0 n.46
15	29	8.9	9.0	8.9	$-1\ 55$	$+ 5.9$	„ 8.8 n.5
16	29	8.9	9.0	8.9	$-0\ 25$	$+24.5$	„ 9.0 n.50
17	31	9.0	9.0	9.0	$-0\ 30$	$+28.1$	„ 9.0 n.45
18	31	9.0	8.9	9.0	$-0\ 41$	-17.1	
19	32	9.0	9.1	9.1	$-1\ 25$	$- 9.0$	
20	32	9.0	9.2	9.1	$-1\ 46$	$+ 7.0$	„ 9.0 n.3
21	33	9.0	9.2	9.1	$-1\ 1$	$+ 9.6$	„ 9.0 n.22
22	34	9.1	9.4	9.2	$-1\ 44$	-20.1	
23	35	9.1	9.1	9.2	$+1\ 8$	$+26.3$	
24	36	9.1	9.3	9.3	$-1\ 21$	-21.5	
25	36	9.1	9.3	9.3	$+0\ 25$	$+29.3$	
26	37	9.2	9.1	9.4	$+1\ 40$	$- 4.1$	
27	37	9.2	9.3	9.4	$-1\ 46$	-23.4	
28	37	9.2		9.4	$-1\ 45$	$+ 8.4$	„ 9.1 n.4
29	38	9.2	9.2	9.4	$-1\ 23$	$- 3.2$	
30	40	9.2	9.2	9.5	$-1\ 48$	$+ 7.6$	„ 9.2 n.2
31	40	9.2	9.0	9.5	$-1\ 19$	$+17.9$	„ 9.0 n.36
32	40	9.2	9.3	9.5	$+0\ 19$	$+ 0.7$	
33	41	9.3	9.0	9.6	$-1\ 8$	-10.8	
34	43	9.3	9.2	9.7	$-1\ 10$	$+21.6$	„ 9.2 n.43
35	45	9.4	9.3	9.8	$-1\ 28$	$+12.1$	„ 9.3 n.24
36	45	9^M4	9^M3	9^M8	-1^m17^s	$+15'.1$	V. 9^M4 n.20
37	46	9.4	9.5	9.8	$-1\ 46$	$- 0.9$	
38	46	9.4	9.5	9.8	$-0\ 5$	$- 8.1$	
39	46	9.4	9.5	9.8	$-1\ 3$	$+26.0$	„ 9.2 n.44
40	47	9.5	9.2	9.9	$-1\ 35$	$+11.3$	„ 9.3 n.10
41	49	9.5	9.5	10.0	$-1\ 22$	$+ 6.6$	„ 9.6 n.6
42	50	9.5	9.5	10.0	$-0\ 42$	$+24.5$	„ 9.7 n.49
43	50	9.5	9.4	10.0	$-0\ 34$	$+12.9$	„ 9.8 n.39
44	51	9.6	9.5	10.1	$-1\ 54$	$+ 3.3$	„ 9.7 n.29
45	51	9.6	9.5	10.1	$-0\ 13$	$+16.6$	„ 10.0 n.42
46	51	9.6	9.4	10.1	$-1\ 44$	$- 5.9$	
47	53	9.6	9.4	10.2	$-0\ 33$	$+16.6$	„ 9.8 n.38
48	55	9.7	9.5	10.3	$+0\ 33$	$- 9.6$	
49	58	9.8	9.4	10.4	$+0\ 35$	$+20.5$	
50	58	9.8		10.4	$-0\ 26$	$+ 3.1$	„ 10.4 n.64
51	59	9.8		10.5	$-0\ 48$	$+ 2.7$	„ 10.3 n.65
52	62	9.9	9.5	10.6	$+0\ 35$	$+18.2$	
53	63	9.9	9.5	10.7	$-0\ 10$	-15.7	
54	63	9.9	9.5	10.7	$-1\ 35$	-23.0	
55	63	9.9	9.5	10.7	$+2\ 0$	-13.2	
56	64	9.9		10.8	$-0\ 28$	$+17.1$	„ 10.2 n.40
57	65	10.0	9.5	10.8	$-0\ 53$	$- 2.6$	
58	68	10.1	9.5	11.0	$+1\ 10$	$+28.1$	
59	68	10.1		11.0	$+0\ 16$	$+ 9.1$	
60	69	10.1		11.0	$+1\ 10$	$+ 3.6$	
61	70	10.1		11.1	$-0\ 48$	$+ 0.3$	
62	71	10.1		11.2	$+0\ 54$	$- 6.3$	
63	72	10.2		11.2	$+0\ 41$	$+ 3.5$	
64	72	10.2		11.2	$-0\ 57$	$- 9.0$	
65	72	10.2		11.2	$+0\ 45$	$+ 3.5$	
66	72	10.2		11.2	$+0\ 39$	$+11.6$	
67	73	10.2		11.3	$-0\ 34$	$+ 6.1$	„ 10.9 n.63
68	74	10.2		11.3	$-0\ 50$	$+ 8.7$	„ 10.9 n.62
69	74	10.2		11.3	$-0\ 40$	-10.8	
70	75	10.3		11.4	$+0\ 27$	-12.9	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
71	76	$10^M.3$		$11^M.4$	$+0^m23^s$	$+14'.4$	dpl.	86	90	$10^M.7$		$12^M.2$	$+0^m\ 3^s$	$-\ 0'.3$	Ch. III. $11^M.5$
72	76	10.3	$9^M.5$	11.4	$+0\ 19$	$-\ 0.2$		87	91	10.7		12.3	$-0\ 21$	$-\ 0.9$	
73	78	10.4		11.5	$-0\ 24$	$-\ 4.2$		88	93	10.8		12.4	$-0\ 1$	$-\ 9.9$	
74	78	10.4		11.5	$+0\ 20$	$-\ 5.3$		89	93	10.8		12.4	$-0\ 2$	$+\ 9.3$	
75	80	10.4		11.6	$+0\ 31$	$+12.7$		90.	93	10.8		12.4	$+0\ 53$	$+\ 3.5$	
76	81	10.4		11.7	$-0\ 20$	$+\ 0.7$		91	97	10.9		12.6	$+0\ 39$	$+\ 3.5$	
77	82	10.5		11.8	$-0\ 13$	$-\ 6.2$		92	98	10.9		12.7	$-0\ 4$	$+\ 6.3$	
78	82	10.5		11.8	$+0\ 26$	$+\ 0.2$		93	98	10.9		12.7	$-0\ 4$	$-\ 3.6$	
79	84	10.5		11.9	$+0\ 21$	$-\ 6.3$		94	98	10.9		12.7	$+0\ 9$	-11.4	
80	84	10.5		11.9	$+0\ 48$	$-\ 2.1$		95	99	11.0		12.8	$+0\ 6$	$+\ 2.7$	
81	85	10.6		12.0	$+0\ 34$	$-\ 0.6$		96	102	11.0		13.0	$+0\ 6$	$-\ 2.4$	
82	85	10.6		12.0	$-0\ 1$	$+12.9$		97	108	11.2		13.3	$-0\ 4$	$+\ 2.4$	
83	88	10.6		12.1	$-0\ 37$	$-\ 8.7$									
84	89	10.7		12.2	$+0\ 15$	$+\ 2.6$									
85	89	10.7		12.2	$+1\ 3$	$+\ 5.1$									

* In cumulo NGC. 6633.

** Valentiner, Astron. Beobachtungen, Mannheim III Abth. 1879. Magnitudines photographicas M. Wolf vide in AN. 3019 anni 1890.

$$M = 8.7 + 0.029\,(G - 21.1).$$

6685

Y Lyrae

$18^h 32^m 52^s$ (1855.0) $+43^0 49'.9$

Typus Antalgol. Periodus: $0^d.502\,693\,7$.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			7.5^M	7.3^M	$+3^m51^s$	+18'.2	PD. $7^M.47$ GW—	26	45	9.9^M	9.5^M	10.8^M	$+1^m38^s$	+ 4'.5	
2			7.6		-0 48	- 9.4		27	46	9.9	9.5	10.9	+1 46	- 1.5	
3	0	8.1^M	8.1	8.4	-0 10	- 3.0		28	48	10.0	9.5	11.0	+1 13	-13.6	
4	1	8.1	8.3	8.5	-0 26	+27.7		29	49	10.1	9.5	11.0	+0 17	+17.2	
5	5	8.3	8.3	8.8	-0 32	+23.9		30	51	10.1		11.1	-0 41	+14.3	
6	10	8.5	8.5	9.1	+2 53	-23.4		31	52	10.2	9.5	11.1	-1 5	+16.4	
7	12	8.6	8.4	9.2	-1 7	+31.0		32	53	10.2	9.5	11.2	+2 15	+29.0	
8	16	8.7	9.1	9.5	-1 7	+ 2.7		33	53	10.2		11.2	+1 22	+11.5	
9	20	8.9	9.0	9.6	-2 44	-19.8		34	56	10.3		11.3	-0 49	+ 5.6	
10	21	8.9	9.2	9.7	-1 46	+25.3		35	56	10.3		11.3	-1 7	+ 3.2	
11	25	9.1	9.1	10.0	+0 50	-20.0		36	56	10.3		11.3	+1 28	-19.5	
12	29	9.3	9.4	10.2	-0 13	+25.0		37	57	10.4		11.4	-0 42	- 3.9	
13	29	9.3	9.3	10.2	+2 44	+23.2		38	60	10.5		11.5	+0 59	+ 8.5	
14	31	9.3	9.3	10.3	-2 31	-16.3		39	61	10.5		11.5	-0 6	+ 1.8	
15	32	9.4	9.3	10.3	-0 42	+ 2.1		40	63	10.6		11.6	-0 51	- 4.6	
16	32	9.4	9.5	10.3	-2 1	+ 4.4		41	63	10.6		11.6	-0 8	- 0.6	W $10^M.7$ c*
17	33	9.4	9.2	10.3	-2 41	-12.8		42	67	10.8		11.8	-0 3	- 9.7	
18	35	9.5	9.5	10.4	-2 38	+ 9.5		43	71	10.9		12.1	-0 2	- 4.2	„ 11.1 h
19	35	9.5	9.4	10.4	-1 28	+28.5		44	74	11.1		12.3	+0 7	- 3.5	
20	38	9.6	9.3	10.5	+0 49	+29.4		45	77	11.2		12.5	+0 4	- 2.8	„ 11.8 m
21	40	9.7	9.4	10.6	+0 50	- 0.8		46	(77)	11.2		12.5	+0 12	- 4.8	„ 11.6 k var.?
22	40	9.7	9.5	10.6	-0 14	- 2.2		47	79	11.3		12.6	+0 9	+ 0.6	„ 12.1 l
23	42	9.8	9.4	10.7	+1 31	-19.7		48	79	11.3		12.6	-0 16	- 0.3	
24	43	9.8	9.5	10.8	-2 30	-14.8		49	82	11.4		12.9	+0 6	- 2.4	„ 12.0 n
25	(43)	9.8	9.5	10.8	+0 29	-15.9									

* Stanley Williams in Monthly Notices vol. LXII p. 202.

$$M = 9.2 + 0.040 \, (G - 27.5).$$

SY Cygni

$19^h\ 41^m\ 0^s$ (1855.0) $+32^0\ 21'.1$

Typus Algol. Periodus: $6^d.0059$.

Num.	Grad.	Magn.	BD.	HP.	Δa	$\Delta \delta$	Notae	Num.	Grad.	Magn.	BD.	HP.	Δa	$\Delta \delta$	Notae
1			$6^M.0$	$5^M.9$	-3^m50^s	$-16'.2$	PD. $6^M.24$ GW	39	56	$9^M.6$	$9^M.5$	$10^M.2$	-1^m18^s	$+26'.4$	
2		6.5		6.2	+0 1	+11.1	„ 6.34 G, Σ²192	40	57	9.7	9.5	10.2	+1 36	+ 1.6	
3	0	$8^M.2$	8.2	7.9	+2 29	+ 5.7		41	58	9.7	9.5	10.2	-1 19	+ 3.1	
4	5	8.3	8.4	8.1	-0 53	+ 0.6		42	58	9.7		10.2	+1 40	+13.2	***
5	10	8.5	8.3	8.3	+1 5	- 9.0		43	59	9.7	9.5	10.3	+0 31	+27.2	
6	11	8.5	9.0	8.4	0 0	+10.5		44	59	9.7	9.5	10.3	-1 15	- 9.6	
7	15	8.6	8.6	8.6	-1 3	+24.2		45	60	9.7		10.3	-0 36	- 5.3	
8	19	8.7	9.0	8.7	+2 4	+15.0		46	61	9.8	9.4	10.4	-1 13	+ 1.2	
9	20	8.7	8.8	8.8	+0 12	+ 0.6		47	61	9.8		10.4	+0 10	- 3.3	*
10	23	8.8	9.0	8.9	-0 2	+ 6.9		48	61	9.8		10.4	-0 10	+ 5.4	
11	24	8.8	9.0	8.9	+2 30	- 5.7		49	61	9.8	9.5	10.4	+2 56	+ 3.3	
12	26	8.9	9.1	9.0	-2 8	+ 6.9		50	63	9.8	9.2	10.5	+2 35	+ 0.5	
13	29	9.0	9.1	9.1	+2 16	- 2.4		51	64	9.8		10.5	+1 38	-11.1	
14	30	9.0	9.3	9.2	-2 21	+24.6		52	64	9.8	9.5	10.5	-2 22	+28.8	
15	33	9.1	9.1	9.3	+2 59	+14.9		53	64	9.8	9.5	10.5	+1 7	+ 8.1	
16	33	9.1	9.3	9.3	-1 21	+20.7		54	64	9.8		10.5	-0 2	+ 1.8	G. 10.8 b
17	34	9.1	9.3	9.3	-0 48	+19.2		55	66	9.9		10.6	+1 40	+ 3.9	
18	36	9.1	9.3	9.4	+1 51	- 6.3		56	66	9.9	9.5	10.6	+2 20	-27.5	
19	37	9.2	9.1	9.4	+1 0	-12.0		57	66	9.9		10.6	+1 41	+13.5	***
20	38	9.2	9.1	9.5	+2 15	0.0		58	67	9.9	9.5	10.6	+0 46	-23.0	
21	42	9.3	9.3	9.6	-0 19	-21.3		59	69	10.0	9.5	10.7	-0 24	- 2.4	G. 11.1 t
22	43	9.3	9.0	9.6	-2 59	-23.3		60	71	10.0	9.5	10.8	+1 48	-16.9	
23	44	9.3	9.4	9.7	-1 21	-27.8		61	72	10.0	9.5	10.8	+2 24	-21.8	
24	47	9.4	9.4	9.8	-2 47	+22.1		62	74	10.1	9.5	10.9	-2 3	- 6.2	
25	47	9.4	9.3	9.8	-2 11	+12.6		63	77	10.2		11.1	+0 19	- 3.9	
26	48	9.4	9.4	9.8	-0 58	-21.9		64	81	10.3		11.3	+0 5	- 1.2	„ 11.4 c
27	50	9.5	9.5	9.9	-1 10	-23.9		65	83	10.3		11.4	+0 5	- 4.8	
28	51	9.5		10.0	+0 39	-11.9		66	85	10.4		11.5	+0 19	- 0.6	„ 11.2 d
29	51	9.5	9.3	10.0	+0 14	+13.2		x			var.		+4 0	+12.1	$5^M-13\frac{1}{2}^M$ ***
30	53	9.6	9.3	10.0	+2 0	+15.1							-0 22	- 1.6	G. 12.0 p
31	53	9.6	9.5	10.0	-2 55	-29.0							-0 36	+ 3.1	„ 12.1 g
32	54	9.6	9.3	10.1	+2 42	+12.3							-0 30	+ 0.6	„ 12.2 h
33	54	9.6	9.5	10.1	-0 55	-27.7									
34	54	9.6	9.3	10.1	-0 34	-24.7							0 0	+ 3.6	„ 12.3 r
35	55	9.6	9.3	10.1	+2 26	-18.6							+0 15	+ 0.6	„ 12.6 k
													-0 4	- 0.4	„ 12.9 m
36	55	9.6		10.1	+0 6	- 2.7	*						-0 12	- 1.1	„ 13.0 n
37	55	9.6		10.1	0 0	+ 0.7	G. 10.5 a**						-0 4	- 2.5	„ 13.1 s
38	56	9.6	9.3	10.2	+2 57	+26.0									

* (36 + 47) = BD. + 32° 3559, 9^M.; HP. $9^M.78$.
** Graff, Hamburg. Mitt. 11 p. 37 (magnitudines et litterae).
*** (42 + 57) = BD. + 32° 3569, $9^M.2$.
**** Vide Ch. 7120 Ser. III et Ch. XV Ser. V.

$$M = 8.8 + 0.025\ (G - 23.0).$$

7220

S Cygni

$20^h\ 2^m\ 28^s$ (1855.0) $+57^0\ 34'.2$

Max. $= 2\,412\,765^d$ (28 Octobris 1893) $+ 323^d$ E*.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1	0	7^M2	7^M2	7^M5	$+2^m13^s$	$-11'.4$	PD. 7^M32 W	36	96	10^M0		10^M8	$-1^m\ 7^s$	$+10'.3$	
2	15	7.6	7.5	7.9	$-0\ 52$	-22.4	,, 8.04GW+	37	97	10.0	9^M5	10.8	$-2\ 42$	-12.1	
3	16	7.6	7.8	8.0	$+4\ 14$	-28.3		38	98	10.0		10.8	$-0\ 54$	$+\ 3.2$	
4	17	7.7	7.7	8.0	$-3\ 45$	-19.6		39	100	10.1	9.5	10.9	$+3\ 15$	$+11.5$	
5	32	8.1	8.1	8.4	$+3\ 34$	$+19.6$		40	101	10.1		10.9	$+0\ 10$	-10.2	
6	41	8.4	8.9	8.7	$-2\ \ 4$	-10.4	P. 8.7 c **	41	103	10.2		11.0	$+0\ 58$	-14.9	
7	45	8.5	9.0	8.9	$-1\ 53$	-25.7		42	104	10.2		11.1	$-1\ \ 5$	$+\ 1.0$	
8	48	8.6	8.6	9.0	$-3\ 12$	-28.5		43	107	10.3		11.2	$-0\ 49$	$+13.1$	
9	48	8.6	9.0	9.0	$+0\ 16$	$-\ 4.3$	,, 9.0 T	44	107	10.3		11.2	$+1\ 22$	$-\ 8.0$	
10	51	8.6	8.9	9.1	$-4\ \ 2$	$+11.4$		45	107	10.3		11.2	$+0\ 57$	-13.4	
11	52	8.7	8.9	9.1	$+0\ \ 1$	$+\ 0.7$	,, 9.1 d	46	109	10.3		11.2	$+1\ \ 6$	$+\ 6.8$	
12	56	8.8	8.9	9.2	$-0\ \ 7$	$+24.3$		47	111	10.4		11.3	$+1\ 34$	-11.6	
13	56	8.8	8.8	9.2	$-3\ 47$	$+\ 7.3$		48	111	10.4		11.3	$+0\ 14$	$-\ 1.7$	P. 10^M7 l
14	57	8.8	9.1	9.3	$+3\ 40$	-26.0		49	113	10.4		11.4	$-0\ 45$	$-\ 4.7$	
15	61	8.9	9.3	9.4	$+1\ 49$	$+\ 7.6$		50	114	10.5		11.5	$+0\ \ 5$	$+\ 6.4$	,, 10.9 m***
16	62	9.0	9.0	9.4	$-1\ 10$	$+\ 1.4$	,, 9.5 e	51	114	10.5		11.5	$-1\ 26$	-13.5	
17	64	9.0	9.4	9.5	$-1\ 50$	$+18.5$		52	115	10.5		11.5	$+0\ 42$	-10.4	
18	66	9.1	9.3	9.6	$-2\ 48$	$+13.1$		53	118	10.6		11.6	$+0\ 21$	$-\ 5.5$	,, 10.3 k
19	68	9.1		9.7	$-3\ 44$	$+11.5$		54	118	10.6		11.6	$-0\ 35$	$+10.3$	
20	70	9.2	9.2	9.7	$-0\ \ 6$	$+\ 8.3$		55	118	10.6		11.6	$-1\ 48$	$+\ 7.7$	
21	70	9.2	9.2	9.7	$+2\ 39$	-25.3		56	119	10.6		11.7	$+0\ 26$	-15.2	
22	74	9.3	9.2	9.9	$-0\ \ 6$	$+\ 7.5$		57	120	10.6		11.7	$+1\ 36$	$\ \ 0.0$	
23	74	9.3	9.3	9.9	$-3\ 34$	-18.4		58	121	10.7		11.8	$-1\ 22$	$+10.7$	
24	76	9.4		10.0	$-1\ 34$	$-\ 4.3$		59	123	10.7		11.9	$+0\ 15$	$-\ 3.0$	
25	76	9.4	9.5	10.0	$+0\ 51$	$-\ 5.4$	,, 9.7 g	60	124	10.8		11.9	$-0\ 22$	$-\ 8.9$	
26	78	9.4	9.3	10.0	$-0\ 23$	$-\ 2.6$	,, 10.0 f	61	125	10.8		12.0	$-1\ 53$	$-\ 5.9$	
27	78	9.4	9.3	10.0	$-2\ \ 1$	$+11.6$		62	126	10.8		12.0	$-1\ 14$	$+\ 6.6$	
28	78	9.4	9.5	10.0	$+1\ 36$	-20.2		63	128	10.9		12.1	$-0\ 43$	$-\ 1.4$	
29	79	9.5	9.5	10.1	$+0\ 37$	$+\ 6.3$		64	129	10.9		12.1	$+0\ 50$	$+\ 6.1$	
30	82	9.6	9.4	10.2	$-2\ 13$	$+12.0$		65	129	10.9		12.1	$-0\ 13$	$-\ 8.6$	
31	84	9.6	9.5	10.3	$+2\ \ 3$	-22.6		66	131	11.0		12.2	$-0\ 21$	-12.9	
32	84	9.6	9.4	10.3	$-2\ 31$	-28.0		67	134	11.1		12.3	$+0\ 12$	$+\ 2.8$	,, 11.4 o
33	86	9.7	9.5	10.3	$+1\ \ 5$	$+27.6$		68	134	11.1		12.3	$-0\ 20$	$+\ 7.6$	
34	88	9.7	9.5	10.4	$+1\ 35$	$-\ 2.7$		69	137	11.2		12.5	$-1\ 14$	$-\ 6.8$	dpl.
35	94	9.9		10.6	$-1\ 28$	$+\ 4.3$		70	138	11.2		12.6	$-1\ 26$	$-\ 8.6$	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
71	139	$11^M.2$		$12^M.6$	$+0^m12^s$	$+7'.3$	P. $11^M.2$ n						$+0^m13^s$	$+0'.7$	P. $13^M.3$ t
72	139	11.2		12.6	−1 33	−13.7	dpl.						+0 1	− 1.0	
73	142	11.3		12.7	+0 43	+ 4.3							−0 13	+ 1.2	„ 14.0 α
74	144	11.4		12.8	−0 8	− 5.9							+0 3	− 1.9	„ 14.5 γ
75	144	11.4		12.8	−0 20	+ 8.5							+0 1	+ 1.0	„ 14.8 η
					+0 4	− 2.8	P. 11.6 p						−0 5	+ 1.3	„ 15.1 θ
					−0 3	− 2.7	„ 12.1 x						−0 4	− 0.1	„ 15.7 δ
					−0 34	+ 4.9									
					−0 9	+ 0.9	„ 12.4 y								
					−0 26	− 0.4									

* + 0.015 E² (Irregularitates magnae).

** Parkhurst, Researches in Stell. Photom. 1906, p. 118, Tab. 72 (magnitudines et litterae).

*** P. $\Delta\delta = +7'.7$ erronea.

$$M = 8.1 + 0.029\,(G - 31.8).$$

7223

SW Cygni

$20^h\ 2^m 25^s$ (1855.0) $+45^0\ 52'.9$*

Typus Algol. Periodus: $4.^d 572\,820$.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	$7.^M9$	$8.^M0$	$7.^M4$	-2^m17^s	$+32'.1$		28	62	$9.^M7$		$10.^M6$	$+0^m32^s$	$-12'.4$	
2	3	8.0	8.0	7.6	$-2\ 15$	$+\ 3.9$		29	66	9.8		10.8	$-1\ 15$	$+\ 9.3$	
3	8	8.1	8.0	7.9	$+0\ 54$	-18.1		30	66	9.8		10.8	$+1\ 6$	$-\ 0.2$	
4	8	8.1	8.1	7.9	$-2\ 42$	$+\ 2.8$									
5	15	8.3	8.6	8.3	$-1\ 30$	$+23.0$		31	68	9.9		10.9	$-0\ 49$	$+10.8$	
								32	70	9.9		11.0	$+0\ 20$	$+15.0$	
6	17	8.4	8.1	8.4	$+1\ 29$	$+\ 3.9$		33	74	10.1		11.3	$-0\ 35$	$+12.5$	
7	24	8.6	8.8	8.8	$-0\ 44$	$-\ 1.0$	G. $9.^M0$ a**	34	75	10.1		11.4	$+0\ 52$	$+\ 6.6$	
8	27	8.7	8.6	8.9	$-0\ 20$	-23.3		35	76	10.1		11.4	$-0\ 20$	$+\ 0.7$	G. $11.^M6$ k
9	28	8.7	9.0	9.0	$+1\ 50$	$+21.1$		36	78	10.2		11.5	$+1\ 10$	$+\ 7.6$	
10	30	8.8	8.5	9.1	$+2\ 17$	$+22.1$		37	79	10.2		11.6	$-0\ 33$	$-\ 9.1$	
11	33	8.9	9.0	9.2	$-1\ 24$	-12.0		38	81	10.3		11.7	$+0\ 22$	$-\ 9.3$	
12	41	9.1	9.1	9.6	$+1\ 12$	$-\ 2.1$	„ 9.4 e	39	88	10.5		12.2	$-0\ 42$	-11.2	
13	41	9.1	9.1	9.6	$+1\ 16$	$+29.3$		40	90	10.5		12.4	$+0\ 5$	$+\ 9.7$	
14	44	9.2	8.8	9.7	$-2\ 45$	$+27.0$									
15	45	9.2	9.4	9.7	$-0\ 54$	$-\ 0.2$	„ 10.1 f	41	90	10.5		12.4	$+0\ 26$	$+\ 8.4$	
								42	90	10.5		12.4	$-1\ 5$	$-\ 6.9$	
16	48	9.3	9.5	9.9	$+2\ 38$	$+14.0$		43	91	10.6		12.5	$+0\ 31$	$-\ 2.8$	„ 11.8 g
17	48	9.3	9.4	9.9	$+0\ 26$	$-\ 1.2$	„ 9.8 d	44	92	10.6		12.5	$-0\ 15$	$-\ 6.9$	
18	49	9.3	9.5	9.9	$+0\ 56$	$+\ 7.8$		45	94	10.6		12.6	$+0\ 50$	$-\ 7.0$	
19	52	9.4	9.5	10.1	$+0\ 40$	-15.7									
20	52	9.4	9.2	10.1	$-0\ 10$	$+\ 2.4$	„ 10.0 b	46	95	10.7		12.7	$+1\ 8$	-12.3	
								47	98	10.8		13.0	$+1\ 5$	-12.3	
21	53	9.4		10.1	$+2\ 45$	-11.6		48	99	10.8		13.0	$+1\ 9$	$-\ 6.3$	
22	53	9.4	9.5	10.1	$-0\ 42$	$+12.9$		49	99	10.8		13.0	$0\ 0$	$-\ 6.3$	
23	56	9.5		10.3	$-0\ 56$	$-\ 1.8$	„ 10.7 h	50	102	10.9		13.2	$+0\ 5$	$+10.1$	
24	57	9.6	9.4	10.3	$-0\ 18$	$+\ 2.8$	„ 10.4 c	51	104	10.9		13.4	$+0\ 26$	$+\ 8.7$	
25	57	9.6	9.5	10.3	$+1\ 46$	-19.2									
26	59	9.6	9.5	10.4	$+2\ 14$	$+\ 9.7$									
27	59	9.6	9.5	10.4	$+0\ 10$	$+12.6$									

* In Charta pro 40^0 lege 46^0.
** Graff, Hamburg. Mitt. 11 p. 30 (magnitudines et litterae).

$$M = 9.1 + 0.029\,(G - 41.0).$$

7260

Z Aquilae

$20^h\ 7^m\ 27^s$ (1855.0) $-\ 6^0\ 35'.4$

Max. $=\ 2\ 413\ 131^d$ (29 Octobris 1894) $+\ 127^d.2$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$6^M.8$	$6^M.9$	-2^m32^s	$-12'.3$		28	52	$9^M.9$	$9^M.8$	$10^M.8$	$+1^m13^s$	$-29'.9$	
2			7.0	7.0	$+0\ 14$	$+36.5$		29	54	9.9	9.8	10.9	$+1\ 55$	$+23.9$	
3			7.5	7.3	$-0\ 46$	$+\ 6.5$	*	30	56	10.0	9.8	11.0	$-0\ 7$	$+29.8$	
4	0	$8^M.4$	8.5	8.2	$+0\ 7$	$-\ 6.7$		31	57	10.0	10	11.1	$+1\ 22$	$+\ 6.5$	
5	1	8.4	8.5	8.3	$-0\ 41$	-31.1		32	61	10.1		11.3	$-0\ 53$	-15.6	
6	12	8.7	9.0	8.8	$-0\ 45$	$+\ 6.7$	*	33	62	10.1		11.3	$+1\ 1$	-15.0	
7	13	8.8	9.0	8.9	$-2\ 17$	$+18.9$		34	64	10.2		11.4	$-0\ 3$	$-\ 9.8$	
8	17	8.9	8.7	9.1	$+2\ 5$	$+35.8$		35	65	10.2	9.8	11.5	$+1\ 51$	$+19.8$	
9	20	9.0	9.0	9.2	$+1\ 45$	-22.1		36	66	10.3		11.5	$-0\ 21$	$-\ 5.4$	
10	25	9.1	9.1	9.4	$-0\ 56$	$+30.2$		37	68	10.3		11.6	$-0\ 3$	$-\ 3.6$	
11	27	9.2	9.1	9.5	$-1\ 56$	$+23.3$		38	68	10.3		11.6	$+0\ 39$	-12.8	
12	30	9.3	9.2	9.7	$+0\ 5$	$-\ 9.1$		39	68	10.3		11.6	$+1\ 4$	$+\ 5.5$	
13	33	9.3	9.5	9.9	$-1\ 33$	-21.1		40	69	10.3		11.7	$-0\ 8$	$+\ 1.2$	
14	35	9.4	9.4	10.0	$-0\ 10$	$+12.0$		41	71	10.4		11.8	$+0\ 11$	$+13.7$	
15	38	9.5	9.5	10.0	$-0\ 34$	$+15.0$		42	73	10.5		11.9	$-0\ 54$	$+\ 9.1$	
16	39	9.5	9.7	10.1	$+0\ 10$	$+30.5$		43	77	10.6		12.1	$+0\ 19$	$+11.4$	
17	39	9.5	9.7	10.1	$+0\ 21$	$+35.5$		44	81	10.7		12.3	$-0\ 17$	$+14.2$	dpl.
18	40	9.5	9.5	10.2	$+1\ 49$	$+\ 7.1$		45	83	10.7		12.4	$-0\ 54$	-12.3	
19	40	9.5	9.8	10.2	$-0\ 30$	$+19.1$		46	83	10.7		12.4	$+0\ 10$	$+\ 3.9$	
20	42	9.6	9.5	10.3	$-1\ 36$	-31.8		47	86	10.8		12.6	$+0\ 13$	$+\ 1.2$	
21	44	9.6	9.8	10.4	$+0\ 29$	-21.8		48	87	10.8		12.6	$+0\ 29$	$+\ 2.7$	
22	44	9.6	9.8	10.4	$+1\ 24$	$+16.9$		49	89	10.9		12.7	$+0\ 19$	$+\ 3.8$	
23	45	9.7	9.5	10.5	$-1\ 26$	-31.8		50	91	11.0		12.8	$-0\ 3$	$+\ 3.3$	
24	46	9.7	9.5	10.5	$-0\ 23$	$-\ 2.6$		51	91	11.0		12.8	$-0\ 12$	-12.0	
25	47	9.7	9.5	10.6	$-0\ 41$	$+25.0$		52	93	11.0		12.9	$+0\ 8$	$+\ 1.5$	
26	48	9.8		10.6	$-0\ 13$	$-\ 9.9$		53	96	11.1		13.0	$-0\ 7$	0.0	
27	49	9.8	9.7	10.7	$+2\ 6$	$+\ 8.2$		54	96	11.1		13.0	$+0\ 3$	$+\ 2.2$	

* $(3+6)=H_2 25=\Sigma\,2646$. Differentiae $\Delta\delta$ in BD. inversae: $+\ 6'.8$ et $+\ 6'.6$.

$$\mathbf{M = 9.2 + 0.028\ (G - 28.2).}$$

7360

RU Capricorni

$20^h 24^m 6^s$ (1855.0) $-22^0 10'.7$

Max. $= 2\,415\,270^d$ (7 Septemb. 1900) $+ 341^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1	0	$7^M.7$	$7^M.7$	$7^M.5$	$+0^m56^s$	$-32'.6$	CoD. $7^M.6$	21	73	$9^M.8$	$9^M.8$	$10^M.4$	$+1^m28^s$	$+18'.9$	
2	7	7.9	8.5	7.7	$-0\ 22$	-28.1	,, 8.3	22	76	9.9	10	10.5	$+0\ 47$	$+10.2$	
3	13	8.1	8.8	7.9	$-0\ 20$	-28.8	,, 8.5 } h2973	23	78	9.9	10	10.5	$+0\ 26$	$+24.1$	
4	38	8.8	8.8	8.7	$+0\ 53$	$+15.3$		24	78	9.9	9.9	10.5	$+0\ 21$	$+11.4$	
5	38	8.8	8.7	8.7	$-2\ 57$	$+33.8$		25	80	10.0	10	10.7	$+1\ 35$	$+6.6$	CoD. 10
6	42	8.9	9.0	8.9	$-2\ 30$	$+26.6$		26	81	10.0	9.8	10.8	$0\ 0$	$+13.8$	
7	43	8.9	9.2	8.9	$+1\ 49$	-30.2	,, 9.0	27	83	10.1		10.9	$-1\ 11$	-14.1	,, 9.8
8	46	9.0	9.1	9.0	$-2\ 43$	$+29.8$		28	84	10.1		11.0	$0\ 0$	$+5.4$	,, 9.7
9	49	9.1	9.1	9.2	$+2\ 10$	$+14.8$		29	87	10.2		11.2	$+0\ 19$	$+1.2$	,, 9.9
10	54	9.2	9.0	9.4	$+1\ 2$	$+26.0$		30	90	10.3		11.4	$+0\ 10$	-2.4	,, 9.9
11	55	9.3	9.3	9.4	$-1\ 41$	-25.1	,, 9.3	31	96	10.5		11.8	$+0\ 16$	-6.6	,, 10
12	57	9.3	9.2	9.5	$-0\ 47$	-20.8	,, 9.1	32	97	10.5		11.9	$+0\ 27$	-8.8	,, 10
13	58	9.4	9.3	9.5	$-1\ 36$	-21.6	,, 9.1	33	102	10.6		12.3	$+0\ 44$	-15.0	,, 10
14	61	9.4	9.4	9.7	$-1\ 38$	$+29.6$		34	102	10.6		12.3	$-0\ 22$	-2.4	
15	64	9.5	9.5	9.8	$+0\ 26$	-30.2	,, 9.7	35	104	10.7		12.4	$-0\ 55$	-6.6	
16	66	9.6	9.7	10.0	$-0\ 10$	-5.4	,, 9.5	36	105	10.7		12.5	$-0\ 47$	-0.6	,, 10
17	67	9.6	9.7	10.0	$+1\ 48$	$+26.8$		37	107	10.8		12.7	$-0\ 19$	-3.2	
18	70	9.7	9.7	10.2	$+1\ 43$	-6.0	,, 9.5	38	110	10.9		12.9	$0\ 0$	-10.2	
19	71	9.7	9.5	10.2	$+1\ 40$	-21.5	,, 9.5	39	112	10.9		13.1	$-0\ 28$	$+8.1$	
20	72	9.8	9.6	10.3	$+0\ 23$	-28.1	,, 9.7	40	114	11.0		13.2	$0\ 0$	-6.9	

$$M = 9.4 + 0.029\ (G - 59.3)$$

7399

W Delphini

$20^h\ 31^m\ 4^s$ (1855.0) $+17^\circ 46'.9$

Typus Algol. Periodus: $4^d.806\,120$ (irregularis).

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
I			7M.0	6M.3	+0m14s	− 1'.0	PD. 6M.02 G
2	0	8M.5	8.5	8.4	+1 28	−25.5	
3	5	8.6	8.8	8.6	−1 21	−28.7	
4	11	8.8	8.8	8.8	−0 58	− 0.3	
5	18	9.0		9.1	−1 51	+28.1	*
6	19	9.0	9.3	9.2	−0 4	+18.0	
7	23	9.1	9.3	9.3	−1 3	+ 9.9	
8	25	9.1	9.3	9.4	+0 18	− 0.9	G. 9.7 a**
9	29	9.2	9.1	9.6	+0 13	−11.3	***
10	33	9.3	9.3	9.7	+0 10	+15.0	
11	37	9.4	9.4	9.9	+0 10	−30.5	
12	38	9.5	9.5	10.0	−0 11	+23.2	
13	38	9.5		10.0	−1 51	+28.5	*
14	38	9.5		10.0	+0 56	− 2.1	
15	39	9.5		10.0	+0 29	− 5.1	
16	39	9.5	9.5	10.0	−0 2	+23.5	
17	41	9.5	9.3	10.1	+1 20	−23.6	
18	41	9.5		10.1	−0 4	+ 9.0	G. 9.6 b
19	44	9.6	9.5	10.2	+0 43	+17.3	
20	50	9 8		10.4	−1 8	+ 9.0	
21	53	9.8	9.5	10.5	−1 53	−28.7	
22	53	9.8		10.5	+0 7	+24.5	
23	56	9.9	9.5	10.6	−1 33	+26.4	
24	56	9.9		10.6	+0 50	− 0.9	
25	60	10.0		10.7	+1 3	− 1.8	
26	63	10.1		10.8	+0 35	+19.8	
27	66	10.2		10.9	+0 16	+15.0	
28	69	10.2		11.0	+0 44	+ 2.3	
29	72	10.3		11.1	+0 36	− 3.1	
30	76	10.4		11.3	+0 9	− 5.3	„ 11.0 h
31	78	10.5		11.4	+0 42	+ 5.7	
32	81	10.5		11.5	+0 20	+ 1.2	„ 10.9 e
33	83	10.6		11.5	+1 0	+ 2.9	
34	87	10.7		11.6	−0 4	+ 2.7	„ 10.8 c
35	88	10.7		11.7	+0 14	0.0	„ 11.2 d
36	88	10.7		11.7	−0 46	+ 5.5	
37	89	10.7		11.7	−0 52	+12.6	

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
38	89	10M.7		11M.7	−0m23s	−11'.4	
39	91	10.8		11.8	−0 9	+11.7	dpl.
40	92	10.8		11.8	+0 34	− 2.1	
41	93	10.8		11.8	−0 45	+13.8	
42	94	10.9		11.9	+0 33	−13.2	
43	95	10.9		11.9	−0 28	− 6.1	
44	97	10.9		12.0	−0 55	+11.7	
45	98	11.0		12.0	−0 58	− 9.3	
46	99	11.0		12.0	−0 42	− 9.1	
47	102	11.1		12.1	−0 27	+11.4	
48	103	11.1		12.2	−0 35	−12.4	
49	105	11.1		12.2	+0 56	− 0.6	
50	105	11.1		12.2	−0 38	+15.3	
51	107	11.2		12.3	−0 20	− 8.4	
52	108	11.2		12.3	+0 47	+ 5.1	
53	110	11.3		12.4	−0 8	−11.7	
54	110	11.3		12.4	−0 41	+10.2	
55	113	11.3		12.5	+0 25	+ 3.9	
56	114	11.4		12.5	+0 44	+ 3.6	
57	115	11.4		12.5	−0 2	− 6.8	
58	115	11.4		12.5	−0 21	+ 3.6	G. 11M.6 f
59	116	11.4		12.5	+0 27	+14.2	
60	117	11.4		12.6	−0 54	−13.8	
61	117	11.4		12.6	+0 28	+ 5.7	
62	118	11.5		12.6	−0 44	− 3.6	
63	119	11.5		12.6	−0 57	+ 9.6	
64	121	11.5		12.7	+0 34	+ 2.7	
65	124	11.6		12.8	−0 35	− 9.3	
66	125	11.6		12.8	−0 47	+14.7	
67	125	11.6		12.8	−0 46	+ 1.5	
68	127	11.7		12.9	−0 5	− 6.0	
69	135	11.9		13.1	−0 32	− 5.4	
70	137	11.9		13.2	−0 19	+ 1.8	„ 12.3 g, dpl.
71	149	12.2		13.5	−0 39	− 9.1	
					−0 5	+ 5.2	„ 12.3 k

* (5 + 13) = BD. +18° 4540, 8M.7.
** Graff, Hamburg. Mitt. 11, p. 21 (magnitudines et litterae).
*** BD. +17° 4368, Δα = +5s.

$$M = 9.0 + 0.025\ (G - 19.1).$$

7435

Y Aquarii

$20^h 36^m 46^s$ (1855.0) $- 5° 21'.4$

Max. $= 2\,415\,224^d$ (23 Iulii 1900) $+ 382^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1			$7^M.8$	$8^M.6$	-1^m56^s	$-27'.7$		26	91	$10^M.8$		$11^M.8$	-0^m47^s	$- 3'.9$	
2	0	$8^M.6$	9.0		$-1\ \ 7$	-20.0		27	95	10.9		11.9	$-0\ 39$	$- 7.5$	
3	4	8.7	8.9	8.8	$-0\ \ 9$	$+ 3.0$		28	99	11.0		12.0	$-0\ 48$	$+ 0.6$	
4	5	8.7	8.7	8.9	$+1\ 13$	$+11.2$		29	102	11.1		12.0	$-0\ 25$	$- 0.3$	
5	6	8.7	8.7	8.9	$-0\ 56$	$+23.1$		30	104	11.2		12.1	$+0\ 14$	-10.8	
6	8	8.8	8.8	9.0	$-0\ 39$	$+ 6.6$		31	109	11.3		12.2	$+0\ 12$	$- 3.1$	
7	11	8.8	8.8	9.1	$+1\ \ 9$	$+23.7$		32	109	11.3		12.2	$-0\ 14$	$+ 0.3$	
8	17	9.0	9.0	9.4	$+0\ \ 8$	$+27.8$		33	113	11.4		12.3	$+0\ 46$	$- 5.6$	
9	25	9.2	9.3	9.8	$-1\ 20$	$- 9.0$		34	115	11.4		12.3	$-1\ 20$	$+25.7$	
10	28	9.3	9.3	9.9	$+0\ 14$	$+21.5$		35	117	11.5		12.4	$-0\ 48$	$+11.7$	
11	31	9.3	9.4	10.1	$+0\ 28$	-12.0		36	117	11.5		12.4	$+0\ 41$	-12.3	
12	36	9.5	9.5	10.3	$+1\ \ 0$	$+22.7$		37	121	11.6		12.5	$+0\ 16$	-12.9	
13	37	9.5	9.5	10.3	$-1\ 51$	$+ 8.7$		38	123	11.6		12.5	$+0\ 56$	-14.4	
14	40	9.6	9.7	10.4	$-0\ 13$	$+14.9$		39	128	11.8		12.7	$+0\ 31$	$- 0.9$	
15	47	9.7	9.6	10.7	$+1\ 41$	$+18.3$		40	130	11.8		12.7	$-0\ \ 2$	$- 4.1$	
16	47	9.7	9.5	10.7	$+0\ 28$	$+11.5$		41	133	11.9		12.8	$-0\ 23$	-12.0	
17	50	9.8	9.7	10.8	$-1\ \ 8$	-12.0		42	133	11.9		12.8	$+0\ 37$	$+ 9.6$	
18	52	9.9	9.7	10.8	$+0\ 15$	-21.6		43	135	11.9		12.9	$-0\ \ 8$	$- 6.3$	
19	61	10.1	9.6	11.1	$+1\ \ 6$	$+22.3$		44	139	12.0		13.0	$-0\ 37$	$+ 0.7$	
20	65	10.2		11.2	$+1\ 39$	-12.0		45	141	12.1		13.1	$+0\ 12$	$+13.5$	
21	70	10.3		11.3	$+0\ 48$	-23.0		46	143	12.1		13.2	$+0\ 44$	$+13.8$	
22	75	10.4	10	11.5	$+1\ 47$	$- 9.3$		47	143	12.1		13.2	$+0\ 38$	$+14.1$	
23	76	10.5	10	11.5	$-1\ 14$	$+ 5.9$		48	147	12.2		13.3	$-0\ 29$	$+10.2$	
24	84	10.7	9.9	11.7	$-1\ 19$	$+24.0$		49	150	12.3		13.5	$-0\ 12$	$+ 0.3$	
25	88	10.8		11.7	$+0\ 48$	$+12.3$									

$$M = 9.3 + 0.025\ (G - 29.7).$$

7448

W Aquarii

$20^h\,38^m\,48^s$ (1855.0) $- 4^0\,36'.6$

Max. $= 2\,412\,825^d$ (27 Decemb. 1893) $+ 382^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$7^M.2$	-2^m12^s	$+10'.5$		24	141	$10^M.0$		$11^M.9$	$+0^m41^s$	$+14'.4$	
2	0	$7^M.6$	7.5	7.4	$+1\ 50$	-33.2		25	142	10.0		12.0	$+0\ 17$	-10.2	
3	27	8.0	8.5	8.2	$+0\ 17$	$-\ 9.5$		26	143	10.0		12.0	$+0\ 15$	-15.0	
4	30	8.1	8.3	8.3	$+0\ 21$	$+\ 1.6$		27	147	10.1		12.1	$+0\ 7$	$+\ 6.6$	
5	54	8.5	8.8	9.0	$-0\ 52$	-21.0		28	148	10.1		12.2	$+0\ 6$	-10.2	
6	61	8.6	9.0	9.3	$-1\ 53$	-17.1		29	152	10.2		12.3	$-1\ 16$	$+13.2$	
7	91	9.1	9.1	10.2	$-0\ 3$	-10.2		30	158	10.3		12.5	$-1\ 1$	$+14.0$	
8	92	9.1	9.3	10.2	$+0\ 30$	$+\ 1.0$									
9	97	9.2	9.3	10.4	$-1\ 48$	-23.3		31	163	10.3		12.7	$-0\ 53$	-11.9	
10	103	9.3	9.1	10.6	$+0\ 12$	$-\ 7.2$		32	163	10.3		12.7	$+1\ 3$	$-\ 3.6$	
								33	169	10.4		12.9	$-1\ 8$	$+14.1$	
11	107	9.4	9.4	10.8	$+0\ 13$	$+21.5$		34	170	10.5		13.0	$+0\ 59$	$-\ 5.4$	
12	111	9.5	9.5	10.9	$-1\ 2$	-21.8		35	171	10.5		13.0	$-0\ 57$	-15.0	
13	(114)	(9.5)	9.6	(11.0)	$-0\ 21$	-26.2	*								
14	117	9.6	9.5	11.1	$-0\ 57$	$-\ 3.8$		36	171	10.5		13.0	$+0\ 16$	$+\ 1.6$	
15	121	9.6	9.5	11.2	$-0\ 39$	$+11.9$		37	173	10.5		13.1	$+0\ 41$	$-\ 8.4$	
								38	174	10.5		13.1	$-0\ 12$	$-\ 8.9$	
16	123	9.7	9.5	11.3	$-0\ 3$	$+19.9$		39	178	10.6		13.2	$0\ 0$	$+\ 5.9$	
17	127	9.7	9.7	11.4	$+0\ 59$	$+25.9$		40	179	10.6		13.3	$-0\ 24$	-15.0	
18	129	9.8	9.8	11.5	$-0\ 21$	$-\ 0.1$									
19	130	9.8	9.7	11.5	$+0\ 52$	-23.0		41	181	10.7		13.4	$+0\ 11$	$+\ 1.6$	
20	131	9.8	9.5	11.6	$+1\ 0$	$+\ 5.9$		42	182	10.7		13.4	$-0\ 12$	-12.9	
								43	185	10.7		13.5	$-0\ 6$	-13.2	
21	131	9.8		11.6	$-1\ 8$	$+17.8$		44	188	10.8		13.6	$-0\ 36$	$-\ 9.0$	
22	131	9.8	9.6	11.6	$-0\ 57$	-22.7	**	45	190	10.8		13.7	$-0\ 31$	$+\ 6.2$	
23	134	9.9	9.8	11.7	$+1\ 34$	$-\ 3.6$									

* Gradus variabiles intra 105 et 130.

** BD. $- 4^0$ 5247, $\Delta\alpha = - 54^s$.

$$M = 9.2 + 0.017\ (G - 95.7).$$

V Delphini

$20^h\,41^m\,11^s$ (1855.0) $+18^0\,48'.3$

Max. $= 2\,411\,739^d$ (6 Ianuarii 1891) $+ 532^d.5$ E. *

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1	0	$8^M.2$	$8^M.2$	$8^M.5$	-3^m15^s	+11'.3	P. $8^M.0$ ε **	33	74	$10^M.6$		$11^M.7$	-0^m24^s	− 0'.2	P. $11^M.2$ d
2	4	8.3	8.3	8.7	−1 8	−33.5		34	75	10.6		11.8	+0 39	+ 2.6	
3	11	8.5	8.5	8.9	+0 58	+31.3		35	77	10.7		11.9	+0 48	+ 9.2	
4	17	8.7	8.8	9.1	−1 8	− 5.4	„ 9.2 δ	36	78	10.7		12.0	+0 40	− 3.6	
5	20	8.8	8.9	9.3	−0 40	− 2.4	„ 9.4 x	37	78	10.7		12.0	+0 16	− 0.8	„ 11.4 e
6	22	8.9	9.0	9.3	−1 33	+ 8.7		38	78	10.7		12.0	+0 4	+ 6.2	
7	24	8.9	9.0	9.4	+1 18	+28.9		39	82	10.9		12.2	−0 20	+ 1.9	„ 11.4 c
8	25	9.0	9.0	9.4	−0 40	− 5.1	„ 9.9 m'	40	82	10.9		12.2	−0 47	− 3.2	
9	28	9.1	9.3	9.5	+0 44	−26.1		41	84	10.9		12.3	+0 7	+ 7.0	
10	28	9.1	9.4	9.5	−0 40	+28.9		42	85	11.0		12.4	+0 59	−11.7	
11	30	9.1	8.9	9.6	−1 1	−20.9		43	86	11.0		12.5	+0 20	− 9.7	
12	32	9.2	9.2	9.7	−0 44	− 8.6	„ 10.0 n'	44	88	11.1		12.6	+0 49	−10.2	
13	36	9.3	9.5	9.9	+1 16	− 2.1		45	88	11.1		12.6	−0 9	+14.1	
14	39	9.4	9.5	10.0	+1 18	−30.0	***	46	88	11.1		12.6	+0 14	+ 0.5	„ 11.8 h
15	41	9.5	9.5	10.1	−0 21	−26.8		47	90	11.1		12.7	−0 22	− 4.5	„ 11.8 l
16	43	9.6	9.1	10.2	−0 53	+ 7.9	„ 10.0 n	48	93	11.2		12.9	−0 53	− 4.2	
17	47	9.7	9.3	10.3	−1 46	+21.2		49	98	11.3		13.2	+0 15	0.0	„ 12.1 b
18	48	9.7		10.4	+0 54	+20.9		50	98	11.3		13.2	−0 9	+ 0.6	„ 12.3 a
19	48	9.7		10.4	+1 9	− 2.5							+0 7	+ 0.7	„ 13.6 y
20	49	9.8		10.5	+0 58	+27.2							+0 7	− 2.7	„ 13.7 τ
21	51	9.8		10.6	−0 27	+11.6	„ 10.4 k						−0 4	− 1.8	„ 13.9 ω
22	53	9.9		10.7	+0 57	− 9.2							0 0	− 2.5	„ 14.3 σ
23	54	9.9		10.7	−0 14	+14.7	„ 10.3 m						−0 5	− 1.5	„ 14.4 ω'
24	59	10.0		10.9	+0 41	−12.3									
25	60	10.1		11.0	+0 58	+11.3							+0 1	− 2.6	„ 14.6 σ'
26	63	10.2		11.1	+0 20	−13.4							−0 3	− 1.2	„ 14.9 ϱ
27	63	10.2		11.1	+0 41	−26.8							−0 2	− 0.7	„ 15.3 φ
28	66	10.3		11.3	+0 42	+ 1.7							+0 3	+ 0.7	„ 15.4 π
29	68	10.4		11.4	−0 8	− 4.4	„ 11.1 g						0 0	− 0.2	„ 15.5 μ
30	70	10.5		11.5	−0 39	−10.2									
31	72	10.5		11.6	−0 11	+ 2.7	„ 11.2 f						−0 1	− 0.1	„ 16.4 A
32	72	10.5		11.6	−1 0	− 4.8									

* Periodo decrescente?
** Parkhurst, Researches in Stell. Photom. 1906 p. 147 Tab. 91.
*** BD. + 18° 4623 Δδ = − 27'.5 erronea.
   BD. + 19° 4513, $9^M.4$ (− 28^s, + 13'.7) } nunquam visae (1899, 1900, 1902).
   BD. + 19° 4518, $9^M.5$ (+ 25^s, + 24'.5) }

$$M = 8.9 + 0.033\ (G − 22.7).$$

7492

RZ Cygni

$20^h 47^m 2^s$ (1855.0) $+46° 48'.7$

Max. $= 2\,417\,049^d$ (22 Iulii 1905) $+ 273^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1		$6^M.0$	$6^M.0$	$5^M.8$	$+3^m 55^s$	$+ 3'.2$	PD. $5^M.84$ WG–	31	44	$9^M.6$	$9^M.5$	$10^M.0$	$-0^m 9^s$	$0'.0$	
2			7.8		$+3$ 58	-15.9		32	45	9.6	9.4	10.1	-0 48	-10.6	
3			7.5	7.5	-0 21	$+21.1$	„ 7.48 GW	33	46	9.7	9.5	10.1	$+2$ 7	$+ 4.5$	
4	0	$8^M.7$	8.4	8.3	$+2$ 49	$- 5.2$		34	47	9.7		10.2	$+1$ 56	-16.9	**
5	4	8.8	8.8	8.5	$+2$ 44	$+23.0$		35	47	9.7	9.5	10.2	$+0$ 39	$+14.4$	
6	7	8.9	9.0	8.6	$+1$ 52	-14.9		36	48	9.7	9.5	10.2	-1 21	$+13.9$	
7	8	8.9	9.2	8.6	-2 1	-21.0		37	48	9.7		10.2	$+1$ 22	$+18.5$	***
8	9	8.9	8.8	8.7	-0 24	$+25.0$		38	48	9.7		10.2	$+1$ 38	-10.5	
9	12	9.0	9.4	8.8	$+1$ 36	-21.6		39	49	9.7	9.5	10.3	-1 5	$+22.3$	
10	14	9.0	9.0	8.8	-0 49	$+ 9.2$		40	50	9.7	9.5	10.3	$+1$ 43	$- 9.1$	
11	17	9.1	9.3	8.9	$+1$ 37	$+24.8$		41	50	9.7	9.4	10.3	$+2$ 33	$+11.8$	
12	18	9.1	9.0	9.0	$+0$ 7	$+14.3$		42	50	9.7	9.5	10.3	$+0$ 30	-18.6	
13	19	9.1	9.3	9.0	$+0$ 27	-26.6		43	52	9.8		10.4	$+0$ 54	$- 5.4$	
14	20	9.1	9.2	9.1	-1 57	-17.9		44	53	9.8	9.5	10.4	-1 39	$+11.4$	
15	21	9.2	9.1	9.1	$+2$ 36	$+ 6.6$		45	55	9.8		10.5	$+0$ 35	$- 2.7$	
16	24	9.2	9.2	9.2	-2 37	-18.0		46	56	9.9	9.5	10.6	$+2$ 33	$+ 2.1$	
17	28	9.3	9.2	9.4	$+0$ 34	$- 9.6$		47	56	9.9		10.6	$+1$ 32	$- 5.9$	*
18	28	9.3	9.5	9.4	-1 52	$+21.3$		48	57	9.9	9.4	10.6	$+2$ 21	$+ 7.8$	
19	30	9.3	9.4	9.5	-1 32	-24.1		49	57	9.9	9.5	10.6	-2 4	$+11.1$	
20	31	9.4	9.1	9.5	$+2$ 13	-18.7		50	57	9.9		10.6	$+0$ 19	$- 3.8$	H. e ****
21	32	9.4	9.3	9.6	-0 8	-24.5		51	58	9.9	9.5	10.7	$+2$ 24	$+17.3$	
22	35	9.4		9.7	-0 9	-25.7		52	58	9.9		10.7	$+0$ 19	$+ 7.8$	
23	35	9.4		9.7	-0 13	$+12.8$		53	61	10.0		10.8	$+0$ 32	$- 5.7$	„ d
24	37	9.5	9.5	9.8	-0 22	$+10.7$		54	63	10.0		10.9	-0 29	-11.9	
25	37	9.5	9.4	9.8	$+2$ 45	$+ 9.9$		55	63	10.0		10.9	-0 36	$+ 8.4$	
26	38	9.5	9.4	9.8	-1 34	$+ 6.3$		56	64	10.0		11.0	$+0$ 30	$- 9.0$	
27	38	9.5		9.8	$+1$ 31	$- 6.2$	*	57	64	10.0		11.0	$+1$ 9	$+ 0.9$	
28	43	9.6		10.0	$+1$ 52	-16.3	**	58	66	10.1		11.1	-0 58	$+ 9.8$	
29	43	9.6	9.5	10.0	$+2$ 16	$+ 1.1$		59	66	10.1		11.1	-1 3	$+ 9.3$	dpl.
30	44	9.6		10.0	$+1$ 31	$+18.6$	***	60	66	10.1		11.1	$+0$ 22	$+ 1.6$	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
61	67	$10^M.1$		$11^M.1$	-0^m17^s	$+14'.1$		71	75	$10^M.2$		$11^M.6$	$0^m\ 0^s$	$-2'.0$	
62	68	10.1		11.2	$-0\ 57$	-12.0		72	77	10.3		11.7	$0\ 0$	-2.4	
63	68	10.1		11.2	$+0\ 29$	$+7.1$		73	77	10.3		11.7	$+1\ 14$	-8.4	
64	68	10.1		11.2	$+0\ 52$	-0.3		74	77	10.3		11.7	$+0\ 30$	-8.4	
65	68	10.1		11.2	$-0\ 9$	-2.0	H. c	75	77	10.3		11.7	$-0\ 11$	$+3.2$	H. b
66	69	10.1		11.3	$-0\ 16$	-3.4		76	82	10.4		12.0	$+0\ 32$	-0.6	dpl.
67	71	10.2		11.4	$-0\ 3$	-4.9		77	87	10.5		12.3	$+0\ 25$	-9.6	
68	71	10.2		11.4	$-0\ 47$	$+5.2$		78	104	10.8		13.2	$-0\ 4$	$+0.7$	H. y
69	72	10.2		11.4	$+0\ 8$	-2.0	„ a								
70	74	10.2		11.5	$-0\ 21$	$+6.9$									

* $(27 + 47) = $ BD. $+ 46^0\ 3088,\ 9^M.3$

** $(28 + 34) = $ BD. $+ 46^0\ 3091,\ 9^M.5$

*** $(30 + 37) = $ BD. $+ 47^0\ 3212,\ 9^M.3$

**** Hartwig, AN. 3553 (litterae).

$$M = 9.2 + 0.020\ (G - 23.3).$$

7571a

TW Cygni

$20^h\ 59^m\ 49^s$ (1855.0) $+28^0\ 49'.7$

Max. $= 2\,415\,977^d$ (15 Augusti 1902) $+347^d$ E.*

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1			$6^M.1$	$5^M.6$	$+2^m40^s$	$+47'.6$	PD. $5^M.98$ W**	31	31	$9^M.7$	$9^M.4$	$10^M.2$	$+0^m\ 9^s$	$+30'.1$	
2			7.0	7.0	$-2\ 31$	-18.3	„ 7.06 WG	32	32	9.8		10.3	$-1\ 54$	$+\ 9.0$	
3			8.4		$+2\ 44$	$+18.0$		33	34	9.8	9.5	10.4	$-0\ 54$	$+23.3$	
4			8.0		$-0\ 31$	-18.6		34	36	9.9		10.5	$-0\ 30$	$+18.0$	
5	0	$8^M.8$	8.9	8.9	$+0\ 55$	$+\ 4.8$		35	38	9.9	9.5	10.6	$+0\ 15$	$+11.4$	
6	4	8.9	9.0	9.0	$+0\ 39$	$+35.0$		36	38	9.9		10.6	$+0\ 48$	$-\ 8.4$	
7	5	9.0	9.0	9.1	$+1\ 31$	$-\ 4.9$		37	40	10.0		10.7	$+0\ 16$	$+23.9$	***
8	9	9.1	9.0	9.2	$+1\ 48$	$+20.9$		38	41	10.0		10.8	$+0\ 26$	$+\ 8.4$	
9	10	9.1	8.8	9.3	$-0\ 23$	$+17.7$		39	44	10.1		10.9	$+0\ 39$	$+\ 9.4$	
10	10	9.1	9.2	9.3	$-2\ 23$	$+23.3$		40	45	10.2		10.9	$+0\ 20$	-11.6	
11	11	9.1	9.2	9.3	$+1\ 46$	$-\ 6.7$		41	46	10.2		11.0	$+0\ 12$	-11.7	
12	12	9.2	9.4	9.4	$-1\ 28$	-21.5		42	48	10.2		11.1	$-0\ 10$	$-\ 5.1$	
13	13	9.2	9.3	9.4	$+0\ 56$	$+\ 0.6$		43	49	10.3		11.2	$+0\ 53$	$-\ 2.7$	
14	14	9.2	9.2	9.5	$-1\ 21$	-20.9		44	52	10.4		11.3	$-0\ 44$	$+\ 8.3$	
15	15	9.3	9.3	9.5	$-1\ 30$	-10.5		45	52	10.4		11.3	$-0\ 50$	-12.6	
16	18	9.3	9.2	9.6	$+1\ 31$	$+\ 3.8$		46	53	10.4		11.4	$+0\ 33$	-10.8	
17	18	9.3		9.6	$+0\ 21$	$+24.5$	***	47	56	10.5		11.6	$+0\ 50$	$+15.3$	
18	18	9.3	9.5	9.6	$-1\ 13$	$+\ 9.6$		48	59	10.6		11.8	$-0\ 26$	$-\ 4.5$	
19	20	9.4	9.4	9.7	$+1\ 0$	-18.6		49	61	10.6		11.9	$-0\ 46$	$-\ 9.3$	
20	20	9.4	9.3	9.7	$+1\ 0$	$+25.7$		50	61	10.6		11.9	$+0\ 10$	-11.4	
21	20	9.4	9.4	9.7	$+1\ 2$	$-\ 1.8$		51	61	10.6		11.9	$+0\ 36$	$-\ 5.1$	
22	21	9.4		9.8	$+1\ 30$	$+\ 3.1$		52	63	10.7		12.0	$+0\ 45$	$+14.1$	
23	21	9.4	9.4	9.8	$-0\ 10$	$+\ 7.2$		53	65	10.8		12.1	$0\ 0$	$+\ 8.4$	
24	22	9.5	9.5	9.8	$+1\ 19$	$+\ 6.9$		54	66	10.8		12.2	$-0\ 19$	$-\ 5.9$	
25	22	9.5		9.8	$+1\ 2$	-21.6		55	67	10.8		12.3	$-0\ 54$	$-\ 7.8$	
26	22	9.5	9.4	9.8	$-1\ 52$	$+\ 9.6$		56	67	10.8		12.3	$-0\ 5$	$+\ 7.8$	
27	22	9.5	9.5	9.8	$-1\ 57$	$+21.0$		57	67	10.8		12.3	$+0\ 39$	$+\ 5.9$	
28	23	9.5	9.5	9.9	$-0\ 34$	$+\ 8.3$		58	69	10.9		12.4	$-0\ 13$	$-\ 2.7$	
29	26	9.6	9.5	10.0	$-0\ 22$	$+11.2$		59	71	10.9		12.5	$+0\ 39$	$+\ 6.1$	
30	30	9.7		10.2	$-0\ 26$	$+17.1$		60	72	11.0		12.6	$+0\ 30$	$+12.3$	

* Irregularitas periodica?
** $\Sigma\,2762$; trpl.: AB $= 3\frac{1}{2}''$, AC $= 58''$.
*** $(17 + 37) =$ BD. $+29^0$ 4312, $9^M.5$.

$$\mathbf{M = 9.3 + 0.030\ (G - 16.5).}$$

7582

X Cephei

$21^h\ 6^m\ 36^s$ (1855.0) $+82^0\ 29'.1$

Max. $= 2\,414\,935^d$ (7 Octobris 1899) $+ 565^d$ E?

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
1			$6^M.0$	$5^M.7$	-13^m44^s	$-30'.0$	76 Draconis PD. $6^M.16$ W+
2			7.5	7.8	+19 25	-34.9	„ 8.07 GW*
3	0	$8^M.5$	8.5	8.6	+ 1 52	- 4.8	P. 8.2 a**
4	4	8.6	8.6	8.7	-15 28	+ 1.0	
5	13	8.9	9.3	9.1	+ 0 25	- 4.0	„ 9.1 b
6	16	9.0	9.2	9.2	-11 48	- 8.3	
7	17	9.0	9.1	9.3	- 1 20	+23.9	
8	21	9.2	9.3	9.4	+11 18	-18.9	
9	23	9.2	9.4	9.5	+10 22	-15.0	
10	26	9.3	9.3	9.6	+ 6 12	+33.0	
11	27	9.4	9.5	9.7	-13 49	-21.9	
12	30	9.5	9.4	9.8	+13 55	- 3.0	
13	30	9.5	9.5	9.8	-12 31	-22.7	
14	33	9.5	9.5	9.9	- 8 47	+ 9.1	
15	38	9.7	9.5	10.1	- 5 27	-25.7	
16	42	9.8	9.5	10.3	+15 55	0.0	
17	47	10.0		10.5	+ 4 44	+ 0.6	
18	50	10.1	9.5	10.6	+ 7 16	+11.6	
19	51	10.1	9.5	10.7	+ 9 34	+29.1	
20	52	10.1	9.4	10.7	- 2 18	+23.9	
21	53	10.2	9.5	10.8	+13 4	+18.6	
22	59	10.4	9.5	11.0	+12 27	+10.2	
23	59	10.4		11.0	- 0 58	-14.3	„ 10.1 r
24	62	10.4		11.2	+ 0 2	-18.9	„ 10.2 p
25	63	10.5		11.3	+ 4 36	+ 4.0	
26	66	10.6		11.4	+ 7 37	-22.7	
27	69	10.7		11.5	+ 4 36	+ 5.2	

Num.	Gradus	Magn.	BD.	HP.	$\varDelta\alpha$	$\varDelta\delta$	Notae
28	70	$10^M.7$		$11^M.6$	$+1^m54^s$	$-18'.8$	P. $10^M.6$ q
29	71	10.7		11.7	+2 42	- 9.6	„ 10.9 s
30	77	10.9		11.9	+4 51	-15.6	
31	80	11.0		12.1	+3 1	+ 3.8	
32	84	11.1		12.3	+7 20	+ 6.6	
33	84	11.1		12.3	-4 12	+ 7.0	
34	84	11.1		12.3	-5 33	+ 9.3	
35	86	11.2		12.4	-7 37	+ 2.5	
					-2 5	- 3.6	„ 12.0 m
36	86	11.2		12.4	-1 30	- 3.6	„ 12.0 h
37	89	11.3		12.6	+3 33	+ 6.0	
38	92	11.4		12.7	- 0 25	+ 5.1	„ 12.3 k
39	95	11.5		12.9	- 0 19	+ 1.2	„ 12.4 e
					-3 10	- 3.2	„ 12.7 n
40	100	11.6		13.2	-0 10	+ 2.1	„ 12.7 g
					-2 24	- 0.4	„ 12.8 l
41	100	11.6		13.2	-1 26	+ 1.2	„ 12.9 d
					-1 18	+ 2.1	„ 13.2 f
					-1 0	+ 2.0	„ 14.0 w
					-0 4	- 2.0	„ 14.2 t
					+0 16	+ 2.1	„ 14.9 u
					-0 50	- 0.6	„ 15.6 x
					-0 55	- 0.9	„ 17.0 y

* Σ 2807 & Greenwich 9 y₂: $8^M.3 + 8^M.2$ ($1^s.07$, $1''.7$).
** Parkhurst, APJ. vol. XVII, 1903 p. 50 Tab. I.

$$M = 9.3 + 0.031\,(G — 25.1).$$

7590

Z Capricorni

21^h $2^m 32^s$ (1855.0) $-16^0 45'.6$

Max. $= 2\,413\,525^d$ (27 Novemb. 1895) $+ 356^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$6^M.9$	$-1^m 14^s$	$-26'.7$		21	87	$10^M.6$		$11^M.5$	$-0^m 30^s$	$+ 8'.7$	
2		7.2	7.4		$-0\ 29$	$+28.5$		22	93	10.7	10^M	11.7	$-1\ 25$	$+ 6.0$	
3	0	$8^M.4$	8.5	8.3	$+2\ 5$	$+18.9$		23	97	10.8		11.9	$-1\ 0$	$+13.2$	
4	4	8.5	8.5	8.4	$-1\ 27$	$+ 0.8$		24	100	10.9		12.0	$+0\ 26$	$+11.4$	
5	5	8.5	8.5	8.5	$+0\ 45$	$+ 8.9$		25	106	11.1		12.2	$-0\ 34$	$+14.4$	
6	28	9.1	9.0	9.0	$+0\ 37$	-12.4		26	110	11.2		12.3	$+0\ 13$	$+11.7$	
7	38	9.4	9.4	9.8	$-1\ 48$	-10.5		27	114	11.3		12.5	$+0\ 42$	$+11.7$	
8	45	9.5	9.5	10.0	$-0\ 58$	$+ 3.0$		28	114	11.3		12.5	$-0\ 9$	$+ 9.6$	
9	48	9.6	9.7	10.1	$+1\ 35$	$+ 0.9$		29	117	11.3		12.6	$+0\ 49$	-12.7	
10	51	9.7	9.9	10.2	$-1\ 24$	$+27.0$		30	120	11.4		12.7	$+0\ 58$	-12.2	
11	57	9.8	9.5	10.5	$+1\ 41$	-24.5		31	123	11.5		12.8	$+0\ 6$	$- 4.2$	
12	60	9.9	9.8	10.6	$+2\ 12$	-24.5		32	128	11.6		13.0	$+1\ 4$	$- 7.9$	
13	60	9.9	10	10.6	$+0\ 11$	-26.9		33	129	11.6		13.0	$+0\ 18$	$+ 5.1$	
14	62	10.0	9.9	10.7	$+0\ 6$	$+ 7.5$		34	131	11.7		13.1	$+0\ 39$	$+ 0.1$	
15	67	10.1	9.8	10.8	$+0\ 4$	$+ 3.2$		35	134	11.8		13.2	$-0\ 19$	$+ 5.7$	
16	73	10.2	10	11.0	$+0\ 4$	-24.3		36	135	11.8		13.2	$-0\ 39$	$- 5.5$	
17	75	10.3	9.5	11.1	$+1\ 24$	$+27.2$		37	137	11.8		13.3	$-0\ 43$	$- 4.8$	
18	76	10.3	9.8	11.2	$+0\ 58$	-20.1		38	141	11.9		13.4	$-0\ 46$	$- 5.4$	
19	81	10.4	10	11.3	$-1\ 20$	$+26.9$		39	141	11.9		13.4	$-0\ 17$	$- 3.9$	
20	84	10.5		11.4	$-1\ 1$	-11.2									

$$M = 9.0 + 0.025\ (G - 23.4).$$

7594

RS Aquarii

21^h 3^m 22^s   (1855.0)   **— 4° 36'.9**

Max. = 2 414 883^d (16 Augusti 1899) + 214^d E?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1	0	7^{M}8	7^{M}8	8^{M}1	−1^{m}39^s	+ 8'.2		23	55	9^{M}7	9^{M}7	10^{M}7	+0^{m}27^s	+ 4'.2	
2	4	8.0	7.8	8.2	+2 15	−15.2		24	57	9.7	9.6	10.8	+1 19	−28.7	
3	8	8.1	8.3	8.4	+1 21	−32.6		25	59	9.8	9.7	10.9	+1 14	+14.4	
4	9	8.1	8.0	8.5	−1 54	+13.6									
5	11	8.2	8.0	8.6	+0 18	− 6.9		26	61	9.9	9.5	11.0	−1 21	− 2.9	
								27	66	10.0		11.3	−0 49	+11.7	
6	14	8.3	8.3	8.7	+1 37	−16.9		28	67	10.1		11.3	−0 33	+11.8	
7	19	8.5	8.5	8.9	+0 31	+37.3		29	69	10.1		11.4	+0 34	− 0.6	
8	22	8.6	8.7	9.0	+2 16	+ 0.9		30	72	10.2		11.6	−0 16	− 7.8	
9	24	8.6	9.0	9.1	+0 39	+31.4									
10	26	8.7	8.8	9.2	−0 31	+ 7.1		31	75	10.3		11.8	−0 12	−16.2	
								32	75	10.3		11.8	+0 54	+14.7	
11	28	8.8	8.9	9.3	−0 41	+35.9		33	79	10.4		11.9	+0 17	−14.3	
12	30	8.8	9.0	9.4	+2 0	+ 8.1		34	80	10.5		12.0	+0 49	+12.8	
13	36	9.0	9.4	9.7	+2 0	+36.6		35	81	10.5		12.1	−0 58	+ 9.9	
14	41	9.2	9.3	10.0	+0 50	+ 4.8									
15	42	9.2	9.4	10.0	+1 16	+21.4		36	84	10.6		12.2	−0 6	+12.9	
								37	87	10.7		12.4	−0 17	+13.2	
16	44	9.3	9.1	10.1	−1 24	− 3.6		38	90	10.8		12.6	−0 35	+ 6.2	
17	46	9.4	9.4	10.2	−1 25	−26.3		39	91	10.8		12.7	+0 14	− 3.1	
18	48	9.4	9.7	10.3	−0 4	− 4.2		40	94	10.9		12.8	+0 1	− 2.7	
19	49	9.5	9.3	10.4	−0 35	+15.7									
20	51	9.5	9.5	10.5	−1 16	+11.4		41	98	11.1		13.0	+0 7	− 3.4	
								42	104	11.3		13.3	+0 4	− 2.1	
21	53	9.6	9.5	10.6	+0 30	+ 2.5									
22	55	9.7	9.5	10.7	−0 15	+11.3									

M = 9.1 + 0.033 (G − 38.1).

7619

RR Aquarii

$21^h \; 7^m \, 28^s$ (1855.0) $- \; 3^0 \, 29'.7$

Max. $= 2\,415\,128^d$ (18 Aprilis 1900) $+ 190^d.5$ E?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.0$	$7^M.2$	$+0^m \; 3^s$	$+19'.4$		19	64	$10^M.0$	10^M	$11^M.0$	$-1^m 32^s$	$+15'.9$	
2	0	$8^M.3$	8.5	8.4	$+3 \; 36$	-15.6		20	65	10.0		11.1	$-0 \; 54$	$+ 6.1$	
3	1	8.3	8.7	8.4	$+0 \; 35$	$+21.0$		21	71	10.2		11.3	$-0 \; 30$	$+12.3$	
4	6	8.4	8.3	8.6	$-0 \; 56$	$+ 8.8$		22	72	10.2		11.4	$-0 \; 10$	$+ 9.9$	
5	16	8.7	8.9	9.0	$-0 \; 30$	$+37.9$		23	79	10.4		11.7	$+0 \; 26$	$- 6.6$	
6	29	9.1	9.4	9.5	$+3 \; 8$	-23.0		24	84	10.6		11.9	$-0 \; 51$	$- 8.7$	
7	32	9.2	9.1	9.6	$-0 \; 48$	-32.1		25	84	10.6		11.9	$-0 \; 21$	$- 3.3$	
8	40	9.4	9.1	10.0	$-0 \; 34$	$- 7.9$		26	89	10.7		12.2	$-0 \; 7$	$+ 8.3$	
9	43	9.4	9.6	10.1	$+1 \; 23$	$+14.2$		27	90	10.7		12.3	$+0 \; 4$	-12.9	
10	45	9.5	9.5	10.2	$+1 \; 3$	-23.0		28	91	10.7		12.3	$+0 \; 2$	$+13.8$	
11	49	9.6	9.6	10.3	$-1 \; 19$	-18.6		29	92	10.8		12.4	$-0 \; 18$	$+ 7.4$	
12	50	9.6	9.7	10.4	$+0 \; 28$	-19.3		30	93	10.8		12.4	$+0 \; 5$	-12.6	
13	52	9.7	9.6	10.5	$-1 \; 15$	-26.7									
14	53	9.7	9.6	10.5	$-1 \; 27$	$+31.1$		31	94	10.8		12.5	$+0 \; 7$	$+ 5.3$	
15	54	9.7	9.5	10.6	$-0 \; 8$	$- 8.8$		32	97	10.9		12.6	$0 \; 0$	-12.7	
								33	101	11.0		12.8	$+0 \; 28$	-10.3	
16	59	9.9	9.9	10.7	$-1 \; 52$	$- 0.2$		34	103	11.1		13.0	$+0 \; 40$	$- 6.3$	dpl.
17	60	9.9	10	10.8	$-1 \; 59$	-22.0		35	123	11.6		14.0	$-0 \; 1$	$+ 0.7$	
18	61	9.9	9.8	10.9	$-0 \; 28$	$+18.1$									

$$M = 9.1 + 0.027 \, (G - 30.1).$$

SS Cygni

$21^h 37^m 1^s$ (1855.0) $+42° 55'.7$

Typus Antalgol. Periodus irregularis.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.2$	$5^M.3$	-2^m31^s	$-18'.6$	75 Cygni *
2	0	$7^M.0$	6.5	6.6	+3 32	-32.3	PD. $5^M.20$ RG—
3	22	7.6	8.5	7.8	+2 1	-9.6	„ 6.73 GW
4	41	8.1	8.3	8.5	+0 27	-0.2	P. 8.01 **
5	49	8.3	8.2	8.6	+2 42	+20.9	„ 8.5 b
6	55	8.5	8.6	8.8	+1 39	+12.9	„ 8.9 w
7	57	8.6	8.8	8.9	+2 7	-30.6	
8	58	8.6	8.5	8.9	+2 30	-15.6	
9	58	8.6	8.3	8.9	+3 13	-23.3	
10	61	8.7	8.5	9.0	+2 33	-18.1	
11	63	8.7	8.8	9.1	+0 54	+29.3	
12	66	8.8	9.0	9.2	-2 20	+21.9	
13	67	8.8	8.9	9.2	+1 36	+7.1	
14	68	8.9	8.7	9.2	-0 56	+24.2	„ 9.2 z
15	70	8.9	9.1	9.3	-1 5	-29.3	
16	70	8.9	9.0	9.3	+1 23	+7.1	
17	72	9.0	9.2	9.4	+2 3	+10.5	
18	75	9.1	9.3	9.5	+1 55	+11.1	
19	76	9.1	9.2	9.5	0 0	+8.1	„ 9.4 c
20	78	9.2	9.0	9.6	+1 10	-25.2	
21	79	9.2	9.0	9.6	-1 6	-19.8	
22	81	9.2	9.2	9.7	-0 21	-0.9	„ 9.6 a
23	82	9.3	9.4	9.7	+0 57	-29.1	
24	83	9.3	9.3	9.8	+2 52	+10.6	
25	84	9.3	9.5	9.8	+2 51	+6.3	
26	84	9.3	8.8	9.8	-0 8	-19.8	
27	85	9.3	9.3	9.8	+2 52	+16.5	
28	85	9.3	9.5	9.8	-2 51	+15.0	
29	88	9.4	9.0	9.9	-2 17	+18.3	
30	88	9.4	9.5	9.9	-2 48	+3.4	
31	90	9.5	9.4	10.0	+0 39	-25.1	
32	93	9.6		10.1	-0 27	+12.7	
33	93	9.6	9.5	10.1	-1 30	+29.1	
34	94	9.6	9.4	10.1	+1 11	+12.2	
35	96	9.7	9.5	10.2	-1 11	-11.7	
36	96	9.7	9.5	10.2	-0 51	-11.1	
37	98	9.7	9.5	10.3	-0 11	+19.0	

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
38	100	$9^M.8$	$9^M.5$	$10^M.4$	-2^m39^s	+12.7	
39	101	9.8	9.3	10.4	+1 53	+9.9	
40	102	9.8		10.4	+1 1	-11.7	
41	104	9.9	9.5	10.5	-0 38	+19.5	
42	106	9.9		10.6	-0 35	-0.6	P. $11^M.3$ e
43	109	10.0		10.7	-0 15	-1.1	„ 10.9 d
44	110	10.0		10.8	-0 8	+7.8	„ 10.9 n
45	110	10.0		10.8	+0 9	+13.5	
46	113	10.1		10.9	+1 23	+0.6	
47	115	10.2		11.0	+0 18	+6.3	„ 10.9 p
48	117	10.2		11.1	-0 53	+11.8	
49	119	10.3		11.2	+0 52	+0.9	
50	122	10.4		11.3	+0 38	+0.9	
51	122	10.4		11.3	+1 7	-8.1	
52	124	10.4		11.4	+1 16	+5.9	
53	125	10.5		11.4	+0 47	-12.5	
54	126	10.5		11.5	-0 51	-8.9	
55	126	10.5	9.5	11.5	+0 19	+16.0	
56	130	10.6		11.7	-1 16	+8.7	
57	130	10.6		11.7	-0 7	+3.9	„ 11.8 m
58	131	10.6		11.7	+1 6	+5.9	
59	134	10.7		11.8	-0 46	-5.7	
60	134	10.7		11.8	+1 16	+9.3	
61	137	10.8		12.0	-0 31	-2.6	„ 12.0 g
62	137	10.8		12.0	-0 5	-5.7	„ 12.0 q
63	137	10.8		12.0	-0 18	-13.5	
64	137	10.8		12.0	+0 45	-6.9	
65	137	10.8		12.0	+1 6	+8.4	
66	140	10.9		12.1	-0 9	-0.6	„ 12.4 h
67	141	10.9		12.2	+1 23	-0.6	
68	144	11.0		12.3	+0 4	+5.7	„ 12.1 o
69	145	11.0		12.4	-0 11	+10.8	
70	146	11.1		12.5	+0 5	+9.5	
71	147	11.1		12.5	-1 6	+4.2	
72	150	11.2		12.7	-1 20	+11.7	
73	155	11.3		13.0	+0 3	-0.6	„ 13.1 k
			8.4		-3 13	-19.0	BD. $+42°$ 4172 ***

* $O\Sigma^2$ 221, $54\frac{1}{2}''$.

** Parkhurst and Daniel, ApJ. vol. XII, 1900, p. 260 (magnitudines in scala Harvard, et litterae).

*** Per errorem designata UU Cygni (vide Pickering, Cat. II 1907 no. 21 35 42).

$$M = 9.0 + 0.028 (G - 72.6).$$

7896

V Pegasi

$21^h 53^m 47^s$ (1855.0) $+ 5^0 25'.5$

Max. $= 2\,413\,353^d$ (8 Junii 1895) $+ 303^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
I			$6^M.0$	$6^M.0$	-0^m54^s	$+35'.9$	PD. $6^M.24$ W, 18 Pegasi	26	57	$10^M.0$	$9^M.5$	$11^M.0$	$+0^m53^s$	$+18'.0$	
2	0	$7^M.8$}	7.0	7.8	$-3\ 1$	-10.5	„ 7.55 GW, sp}*	27	59	10.1		11.1	$+0\ 44$	-8.1	
3	3	7.9}		8.0	$-3\ 1$	-10.3	„ 8.05 GW, nf}*	28	59	10.1		11.1	$+1\ 4$	$+20.6$	
4	3	7.9	8.0	8.0	$-2\ 26$	-6.0		29	59	10.1	(9.5)	11.1	$-1\ 42$	$+12.6$	dpl.
5	10	8.2	8.3	8.4	$-0\ 29$	-8.7		30	60	10.1		11.2	$+0\ 39$	-24.4	
6	15	8.4	8.4	8.6	$0\ 0$	-17.3		31	62	10.2		11.3	$-0\ 10$	$+13.2$	
7	18	8.5	9.2	8.8	$-2\ 31$	-7.2		32	65	10.3		11.5	$-0\ 50$	0.0	
8	27	8.8	8.8	9.3	$-0\ 17$	$+12.6$		33	66	10.3		11.5	$-0\ 3$	-8.9	
9	33	9.1	9.3	9.7	$-0\ 11$	-15.7		34	69	10.4		11.7	$-0\ 15$	$+23.6$	**
10	35	9.2	9.2	9.8	$-0\ 46$	$+21.5$		35	71	10.5		11.8	$-0\ 16$	-0.3	
11	35	9.2	9.2	9.8	$-2\ 0$	$+24.5$		36	73	10.6		11.9	$-0\ 53$	-11.7	
12	36	9.2	9.3	9.8	$-0\ 34$	$+25.1$		37	73	10.6		11.9	$-0\ 10$	$+8.7$	
13	39	9.3	(9.4)	10.0	$-1\ 7$	$+22.4$	dpl.	38	74	10.6		12.0	$+0\ 36$	$+11.1$	
14	39	9.3	9.5	10.0	$+1\ 11$	$+30.0$		39	77	10.8		12.1	$+0\ 45$	$+8.7$	
15	41	9.4	9.3	10.1	$-0\ 49$	-2.2		40	77	10.8		12.1	$-0\ 15$	$+6.6$	
16	45	9.5	9.4	10.4	$+1\ 35$	-18.9		41	79	10.8		12.2	$-0\ 4$	$+6.0$	
17	47	9.6	9.5	10.5	$+1\ 1$	$+33.8$		42	82	10.9		12.4	$+0\ 41$	$+13.5$	
18	48	9.6}	9.0	10.5	$-1\ 33$	$+9.8$		43	86	11.1		12.6	$+0\ 18$	$+6.6$	
19	49	9.7}		10.6	$-1\ 32$	$+9.9$		44	90	11.2		12.8	$-0\ 54$	$+12.9$	
20	49	9.7	9.5	10.6	$+0\ 15$	$+3.2$		45	(91)	11.3	9.5	12.9	$-0\ 34$	-0.6	var.?***
21	50	9.7		10.6	$+0\ 52$	$+10.1$		46	93	11.4		13.0	$+0\ 5$	$+10.8$	
22	(51)	9.8		10.7	$-0\ 29$	-2.9	dpl.						$+0\ 7$	-2.5	
23	51	9.8		10.7	$+0\ 6$	$+4.2$									
24	54	9.9	9.5	10.8	$+1\ 42$	-4.2									
25	55	9.9	9.5	10.9	$+0\ 32$	-27.2									

* (2 + 3) = Σ 2848, HP. = $6^M.65$

** 34 = BD. + 5° 4925, $9^M.5$ (-19^s, $+26'.0$)?

*** Vix apparens 8 Aug. 1899 (caelo sereno); invisibilis 2 Octobr. 1899, Sept. 1901, Aug. 1902; $11^M.3$ die 15 Septembr. 1903.

$$M = 8.8 + 0.038\ (G - 25.7).$$

7961 & 7964

Y & RS Pegasi

$22^h\ 4^m\ 54^s$ (1855.0) $+13^0\ 44'.8$

Y Max. $= 2\,415\,324^d$ (31 Oct. 1900) $+ 203^d.3$ E.
RS Max. $= 2\,416\,279^d$ (13 Junii 1903) $+ 436^d$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			$6^M.2$	$6^M.4$	-1^m35^s	$+10'.5$	Σ 2869, $21\frac{1}{2}''$ PD. $6^M.60$ WG	23	69	$10^M.2$		$11^M.6$	-0^m30^s	$+12'.6$	G. n. 2
2	0	$8^M.3$	8.2	8.3	$-1\ 37$	-42.3		24	71	10.2		11.7	$+0\ 36$	-6.1	,, n
3	1	8.3	8.3	8.4	$+0\ 51$	$+33.0$		25	72	10.3		11.7	$+0\ 12$	-12.0	,, m
4	7	8.5	8.8	8.7	$-2\ 1$	-40.6		26	76	10.4	$9^M.5$	11.9	$-1\ 29$	-25.5	BD. Δα $=-1^m38^s$
5	7	8.5	8.5	8.7	$+0\ 48$	-33.3		27	78	10.4		12.0	$-0\ 56$	-8.4	G. h
6	11	8.6	8.7	8.9	$-1\ 8$	-30.6		28	81	10.5		12.1	$-0\ 23$	$+12.0$	
7	15	8.7	9.1	9.0	$+1\ 55$	-34.9		29	81	10.5		12.1	$+0\ 53$	$+4.8$	
8	31	9.2	9.5	9.8	$-0\ 14$	-1.2	G. n. 5 a *	30	83	10.6		12.2	$-0\ 20$	$+10.7$	
9	32	9.2	9.2	9.9	$-1\ 43$	$+15.0$		31	85	10.6		12.3	$+0\ 20$	$+12.3$	,, n. 7 p
10	33	9.2	9.3	9.3	$+0\ 25$	$+23.1$		32	88	10.7		12.4	$-0\ 22$	$+4.5$	,, g
11	38	9.3		10.1	$-1\ 52$	$+15.4$		33	91	10.8		12.5	$+0\ 45$	$+10.6$	
12	41	9.4	9.5	10.3	$+2\ 10$	-9.7		34	93	10.8		12.6	$-0\ 39$	$+5.7$	
13	46	9.6		10.5	$-0\ 19$	-29.6		35	94	10.9		12.7	$-0\ 44$	-4.2	,, r
14	48	9.6	9.3	10.6	$-0\ 19$	-21.9	BD. Δδ $=-19'.8$	36	102	11.1		13.0	$-0\ 27$	-2.7	
15	51	9.7	9.5	10.7	$+0\ 59$	-6.9	G. n. 10	37	107	11.2		13.2	$-0\ 24$	-2.7	,, k
16	52	9.7	9.5	10.8	$+1\ 12$	$+4.5$		38	107	11.2		13.2	$+1\ 52$	$+3.6$	
17	52	9.7	9.5	10.8	$-0\ 40$	$+4.2$	,, n. 1 c						$+0\ 18$	$+4.4$	,, d $11^M.2$
18	55	9.8	9.3	10.9	$+0\ 15$	$+6.9$	,, n. 6 b						$+0\ 14$	$+6.1$	,, e 11.7
19	58	9.9		11.1	$-0\ 16$	$+6.0$	,, n. 4 f								
20	61	10.0		11.2	$+0\ 50$	$+7.8$	,, n. 9	Y			var.		$-0\ 19$	-5.6	
21	63	10.0		11.3	$+1\ 56$	$+1.8$		RS			var.		$+0\ 19$	$+5.6$	**
22	67	10.1		11.5	$+0\ 40$	-9.9									

* Graff AN. 3796 (numeri); Hamburg. Mitt. 8 p. 33 (litterae).

** ? = BD. $+13^0$ 4866 a $(+14^s, +3'.3)$, $9^M.5$ observata Bonnae 26 Aug. 1854.   Confer similes errores in Δα et Δδ stellarum 26 et 14.

$$M = 9.0 + 0.027\ (G - 25.3).$$

7999

X Aquarii

$22^h 10^m 40^s$ (1855.0) $-21^0 37'.4$*

Max. $= 2 413 365^d$ (20 Iunii 1895) $+ 315^d$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1			$5^M.7$	$5^M.4$	$+2^m56^s$	$-41'.4$	Fl. 47 UA. 135, $5^M.6$, r	18	116	9^M9		10.7	-0^m21^s	$-0'.5$	
2	0	$7^M.8$	7.7	7.2	-0 5	$+9.8$		19	122	10.0	$9^M.8$	10.9	$+1$ 39	$+23.8$	
3	14	8.0	8.0	7.5	-4 34	-30.2		20	124	10.0	9.7	11.0	-0 7	-15.8	
4	42	8.5	8.6	8.3	-3 0	-22.1		21	124	10.0	9.8	11.0	-1 20	-29.8	
5	48	8.6	8.6	8.5	-0 13	-5.9		22	129	10.1	9.8	11.1	$+1$ 10	$+2.9$	
6	54	8.7	8.8	8.7	-0 40	$+24.5$		23	130	10.1		11.2	-0 48	$+18.9$	
7	59	8.8	9.0	8.8	-0 7	$+24.6$		24	134	10.2		11.4	-0 49	-8.3	
8	62	8.9	9.0	8.9	-0 1	$+21.0$		25	143	10.3	10	11.6	$+1$ 11	-11.9	
9	63	8.9	9.2	9.0	-2 31	-12.9		26	150	10.5		11.9	-0 37	-12.9	
10	63	8.9	8.8	9.0	-0 26	-31.5		27	151	10.5	9.9	11.9	-1 38	-14.4	
11	69	9.0	8.9	9.1	$+1$ 18	-24.8		28	153	10.5		12.0	$+1$ 12	$+14.7$	
12	69	9.0	9.1	9.1	-1 4	$+26.2$		29	175	10.9		12.8	-0 40	$+12.0$	
13	70	9.0	9.1	9.2	-2 39	-23.3		30	180	11.0		13.0	$+0$ 56	-2.4	
14	83	9.3	9.3	9.6	-0 25	$+18.2$		31	181	11.0		13.0	$+0$ 42	$+8.1$	
15	85	9.3	9.3	9.7	-0 7	$+20.2$		32	182	11.0		13.1	-0 3	-10.2	
16	99	9.5	9.5	10.2	$+0$ 46	$+6.2$		33	192	11.2		13.4	$+0$ 12	-3.1	
17	104	9.6	9.5	10.3	$+0$ 49	-12.8							-0 2	-4.3	Hartwig 13^M

* In Charta lege: $- 21^0 24'.0$.

$$M = 8.9 + 0.018 (G - 63.0).$$

8026

RT Aquarii

$22^h\ 15^m\ 13^s$ (1855.0) $-22°\ 47'.2$

Max. $= 2\,416\,018^d$ (25 Septembris 1902) $+ 241^d$ E?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.7$	$5^M.4$	-1^m37^s	$+27'.6$	CoD. $5^M.6$	19	51	$10^M.1$		$11^M.6$	$+0^m19^s$	$-30'.6$	CoD. 10^M
2			7.5	7.4	$+1\ \ 4$	$+27.5$	„ 7.5	20	54	10.2		11.7	$-0\ \ 6$	$+17.9$	„ 10
3	0	$8^M.5$	8.8	8.9	$+2\ 26$	$+27.2$	„ 8.5	21	56	10.2		11.8	$-0\ 18$	$+23.3$	„ 10
4	3	8.6	8.5	9.0	$+1\ \ 9$	-12.2	„ 8.5	22	59	10.3		12.0	$+0\ 44$	$+\ 4.8$	„ 10
5	6	8.7	8.8	9.2	$-2\ \ 3$	$+25.4$	„ 8.8	23	61	10.4		12.1	$+0\ 28$	$+11.9$	„ 10
6	14	9.0		9.6	$-2\ \ 7$	-25.4	„ 8.7	24	63	10.4		12.2	$+0\ 51$	$+15.6$	„ 10
7	16	9.0	9.0	9.7	$-0\ 29$	$-\ 6.6$	„ 9.0	25	67	10.5		12.4	$+0\ 39$	-13.9	„ 10
8	19	9.1	9.0	9.9	$-2\ 11$	$+24.5$	„ 9.2	26	68	10.6		12.4	$+0\ 46$	$-\ 3.9$	„ 10
9	21	9.2	9.0	10.0	$+0\ 42$	$+\ 8.9$	„ 9.0	27	68	10.6		12.4	$-0\ 32$	$-\ 2.7$	
10	27	9.3		10.3	$-2\ 11$	$-\ 6.7$	„ 9.6	28	72	10.7		12.6	$+0\ 20$	$-\ 1.5$	„ 10
11	29	9.4		10.4	$+1\ 19$	-27.2	„ 9.4	29	72	10.7		12.6	$+0\ 22$	-13.2	„ 10
12	30	9.4		10.5	$+0\ 21$	-29.8	„ 9.4	30	73	10.7		12.7	$-0\ 48$	$-\ 3.1$	
13	33	9.5		10.6	$+1\ 18$	-18.6	„ 9.6	31	75	10.8		12.8	$+0\ 59$	$+11.4$	
14	36	9.6		10.8	$+0\ 38$	-15.1	„ 9.6	32	80	10.9		13.0	$+0\ 14$	$+\ 5.7$	
15	39	9.7	9.7	10.9	$+1\ 40$	$-\ 8.3$	„ 9.8	33	87	11.1		13.3	$+0\ \ 6$	$+\ 6.6$	
16	41	9.8		11.0	$+0\ 58$	-28.1	„ 9.5	34	90	11.2		13.5	$+0\ 18$	$-\ 3.3$	
17	43	9.8	9.9	11.1	$-1\ 22$	$+\ 8.2$	„ 9.6	35	90	11.2		13.5	$-0\ 10$	$-\ 0.7$	
18	51	10.1		11.6	$+0\ 30$	$-\ 3.3$	„ 9.9								

$$\mathbf{M = 9.4 + 0.030\ (G - 28.7).}$$

V Cassiopeiae

$23^h\ 5^m\ 27^s$ (1855.0) $+58^0\ 54'.5$

Max. $= 2\,412\,789^d$ (21 Novembris 1893) $+ 231^d.5$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.3$	$4^M.9$	$-5^m\ 0^s$	-17.1	PD. $4^M.97$ W+, 1 Cass.	41	93	$10^M.4$		$10^M.8$	$+0^m32^s$	-6.1	
2			6.1	5.6	$-1\ 56$	-21.8	„ 5.82 GW+, 2 „	42	93	10.4		10.8	$+0\ 45$	0.0	
3			6.5	6.3	$-4\ 26$	$+2.1$	„ 6.64 GW− *	43	96	10.5		10.9	$-0\ 3$	-2.9	
4	0	$7^M.7$	7.3	7.7	$-4\ 13$	-42.5	„ 7.31 WG	44	97	10.5		10.9	$-0\ 36$	$+8.3$	
5	18	8.2	8.3	8.3	$-1\ 49$	-24.5		45	100	10.6		11.0	$-1\ 55$	$+0.1$	
6	25	8.4	8.5	8.6	$-2\ 37$	$+27.9$		46	101	10.6		11.0	$+1\ 55$	-4.8	
7	25	8.4	8.5	8.6	$+2\ 16$	$+6.9$		47	102	10.7		11.1	$+0\ 39$	-6.2	
8	30	8.6	8.4	8.8	$+2\ 20$	-19.9		48	102	10.7		11.1	$+0\ 41$	-10.8	
9	32	8.6	8.8	8.9	$-0\ 47$	$+30.7$		49	103	10.7		11.1	$+0\ 57$	-0.4	
10	33	8.7	8.6	9.0	$+1\ 57$	-24.6		50	106	10.8		11.2	$-1\ 40$	$+0.1$	
11	37	8.8	9.2	9.1	$+3\ 58$	$+12.9$		51	108	10.8		11.2	$-0\ 8$	$+0.7$	
12	38	8.8	9.1	9.2	$-2\ 15$	$+28.3$		52	110	10.9		11.3	$+1\ 36$	$+12.4$	
13	41	8.9	9.5	9.3	$+0\ 30$	$+12.2$		53	110	10.9		11.3	$-0\ 28$	-9.9	
14	45	9.0	8.9	9.4	$-0\ 46$	$+26.6$		54	111	10.9		11.3	$+1\ 53$	$+12.0$	
15	46	9.0	9.0	9.5	$-0\ 41$	$+16.0$		55	113	11.0		11.4	$-0\ 39$	-5.4	
16	48	9.1	9.2	9.5	$+2\ 52$	$+8.2$		56	113	11.0		11.4	$+1\ 46$	$+3.2$	
17	51	9.2	9.1	9.6	$-1\ 55$	$+15.7$		57	115	11.0		11.4	$+1\ 43$	-5.7	
18	52	9.2	9.3	9.6	$+3\ 19$	$+24.2$		58	117	11.1		11.5	$-0\ 9$	$+14.9$	
19	54	9.3	9.4	9.7	$-1\ 55$	-3.0		59	120	11.2		11.6	$-0\ 13$	$+8.7$	
20	55	9.3	9.3	9.7	$-1\ 38$	-29.9		60	120	11.2		11.6	$+1\ 54$	-0.3	
21	56	9.3	9.5	9.8	$-2\ 19$	$+6.7$		61	123	11.3		11.7	$-1\ 39$	-8.7	
22	59	9.4		9.9	$+0\ 41$	$+8.9$		62	126	11.4	$9^M.5$	11.8	$-0\ 23$	-25.5	
23	60	9.5	9.4	9.9	$-2\ 23$	$+27.9$		63	126	11.4		11.8	$+1\ 23$	-6.6	
24	61	9.5		9.9	$+1\ 41$	-21.0		64	128	11.4		11.8	$-0\ 45$	$+1.3$	
25	62	9.5	9.5	10.0	$+0\ 14$	$+10.9$		65	129	11.5		11.8	$+0\ 34$	-3.8	
26	64	9.6	9.5	10.0	$-1\ 4$	$+12.9$		66	132	11.5		11.9	$-1\ 23$	-0.1	
27	67	9.7	9.4	10.1	$+2\ 36$	-18.6		67	133	11.6		12.0	$+1\ 28$	-3.9	
28	67	9.7	9.5	10.1	$+3\ 27$	$+11.5$		68	134	11.6		12.0	$-1\ 2$	-11.1	
29	68	9.7	9.5	10.1	$+0\ 48$	$+3.2$		69	135	11.6		12.0	$-0\ 47$	-1.5	
30	71	9.8	9.5	10.2	$+0\ 5$	$+14.3$		70	136	11.7		12.1	$+0\ 7$	-12.0	
31	73	9.8	9.5	10.3	$-1\ 36$	$+11.7$		71	137	11.7		12.1	$-1\ 29$	-0.9	
32	74	9.9	9.5	10.3	$-0\ 3$	-5.9		72	140	11.8		12.2	$+1\ 12$	-11.8	
33	75	9.9		10.3	$-2\ 2$	-12.8		73	142	11.8		12.3	$-0\ 58$	-1.0	
34	76	9.9		10.4	$-0\ 31$	$+3.0$		74	143	11.9		12.3	$+0\ 9$	-11.7	
35	77	9.9	9.5	10.4	$+3\ 44$	-14.1		75	147	12.0		12.4	$-0\ 24$	$+5.3$	
36	80	10.0		10.5	$-0\ 20$	-13.5		76	149	12.0		12.5	$+1\ 8$	-11.1	
37	81	10.1	9.5	10.5	$-0\ 26$	-29.4		77	152	12.1		12.6	$-1\ 5$	-10.5	
38	84	10.2		10.6	$-1\ 1$	$+9.7$									
39	86	10.2		10.6	$+0\ 8$	$+8.2$									
40	90	10.3		10.7	$+0\ 34$	$+4.7$									

* PD. Stella Fund. Nr. 142.

$$\mathbf{M} = 8.9 + 0.029\ (G - 40.9).$$

RR Cassiopeiae

$23^{h}\,48^{m}\,32^{s}$ (1855.0) $+52^{0}\,55'.1$

Max. $= 2\,415\,051^{d}$ (31 Januarii 1900) $+ 309^{d}$ E.

Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae	Num.	Gradus	Magn.	BD.	HP.	Δα	Δδ	Notae
1	0	$7^{M}.4$	$7^{M}.3$	$7^{M}.0$	$+3^{m}21^{s}$	− 9′.6	PD. $7^{M}.24$ W+	38	85	$10^{M}.8$		$11^{M}.0$	$-1^{m}34^{s}$	− 6′.6	
2	5	7.6	7.7	7.3	−3 7	+32.8		39	86	10.8		11.0	−0 36	+ 0.6	G. b
3	7	7.7	7.5	7.4	+0 41	− 0.7	„ 7.70 GW	40	88	10.9		11.1	−1 6	− 7.9	dpl.
4	8	7.7	8.2	7.5	+0 44	+14.2	*	41	88	10.9		11.1	+1 21	− 5.1	
5	10	7.8	7.5	7.6	+2 50	−20.6	„ 7.68 WG	42	89	10.9		11.2	+0 49	−12.0	
6	15	8.0	8.6	7.9	−2 57	+29.8		43	92	11.1		11.3	−1 12	− 5.3	
7	22	8.3	8.2	8.3	+3 10	−28.6		44	92	11.1		11.3	−0 26	− 0.3	G. e
8	22	8.3	7.5	8.3	−1 0	−13.9	„ 8.39 W+ *	45	93	11.1		11.3	−0 48	− 3.0	dpl.
9	27	8.5	9.0	8.5	+0 42	+20.8		46	93	11.1		11.3	−1 7	0.0	
10	29	8.5	8.2	8.6	+2 58	− 3.1		47	94	11.1		11.4	+1 13	+ 6.9	
11	33	8.7	8.8	8.8	+1 17	+ 1.1		48	94	11.1		11.4	−0 9	+ 6.0	
12	37	8.9	9.3	8.9	+2 34	+25.2		49	95	11.2		11.4	−0 6	− 1.8	G. c
13	39	8.9	9.0	9.0	−2 46	+33.4		50	95	11.2		11.4	+0 48	− 2.1	
14	39	8.9	9.0	9.0	+3 21	−14.3									
15	40	9.0	8.7	9.1	+2 11	−33.0		51	96	11.2		11.5	−0 48	− 7.8	
16	42	9.1	9.1	9.2	+2 11	+14.8		52	97	11.3		11.5	+0 39	−12.3	
17	44	9.1	9.0	9.2	+1 59	− 8.7		53	97	11.3		11.5	+0 28	− 0.6	
18	47	9.3	9.1	9.4	+2 58	−22.6		54	99	11.3		11.6	−0 26	−12.0	
19	47	9.3	9.1	9.4	−1 12	− 0.9		55	101	11.4		11.7	−0 9	+ 7.2	
20	47	9.3	9.1	9.4	−3 3	−15.2		56	102	11.5		11.8	+0 20	+ 2.8	dpl.
21	50	9.4	9.3	9.5	−2 12	+ 0.7		57	103	11.5		11.8	+0 24	+10.8	
22	52	9.5	9.2	9.6	+2 4	− 23.8		58	103	11.5		11.8	−0 26	−10.8	
23	53	9.5	9.5	9.6	−2 8	− 8.3		59	103	11.5		11.8	0 0	−10.5	
24	54	9.5	9.2	9.7	−1 1	+24.5		60	103	11.5		11.8	−1 24	+ 9.1	
25	57	9.7	9.4	9.8	+0 53	+21.2		61	103	11.5		11.8	−0 39	+ 9.9	
26	58	9.7	9.4	9.8	−1 32	+ 5.7		62	103	11.5		11.8	−0 47	+11.1	***
27	63	9.9	9.5	10.1	−1 37	− 1.0		63	104	11.5		11.9	−0 54	+12.3	
28	64	9.9	9.5	10.2	−1 14	+25.2		64	106	11.6		12.0	−1 6	+10.0	
29	64	9.9	9.5	10.2	+1 52	+ 2.3		65	108	11.7		12.1	+0 17	+ 7.2	
30	68	10.1		10.2	−0 49	+ 6.2	G. a **	66	109	11.7		12.1	−0 38	+ 3.0	
31	71	10.2		10.4	−0 43	+11.1	***	67	110	11.8		12.2	−0 41	+ 3.9	
32	72	10.3	9.5	10.4	−2 9	−11.3		68	111	11.8		12.3	−0 44	+ 2.6	
33	74	10.3	9.5	10.5	−2 22	+ 2.3		69	131	12.6		13.6	−0 6	− 1.2	G. d $11^{M}.6$
34	77	10.5		10.6	+0 39	−10.4							−0 20	0.0	„ f 11.6
35	80	10.6		10.7	−0 33	− 8.4							−0 17	+ 2.6	„ g 11.8
36	83	10.7		10.9	+0 55	+ 3.3	G. k						+0 3	− 2.5	„ h 12.7
37	85	10.8		11.0	+1 15	− 1.2									

* Magnitudines stellarum no. 4 (BD. + 53° 3256) et no. 8 (BD. + 52° 3559) nunc (1902—05) sunt inversae earum quae fuerunt annis 1857 et 59. Quas differentias D. Deichmüller tum examinatis Bonnae manuscriptis tum stellis in caelo observatis confirmavit, stellamque no. 8 aliorum observationibus commendat (AN. 3845, 1902).

** Graff, Hamburg. Mitt. 8 p. 53.

*** (31 + 62) = BD. + 53° 3252, $9^{M}.5$.

$$M = 8.7 + 0.040\ (G - 33.1).$$

8610

Z Pegasi

$23^h 52^m 42^s$ (1855.0) $+ 25^0 4'.9$

Elementa Variationis ignota.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
I			$4^M.3$	$4^M.8$	-2^m20^s	$-44'.5$	ψ Pegasi	16	64	$10^M.1$		$11^M.3$	$-0^m 9^s$	$+ 3'.0$	
							PD. $4^M.80$ G–	17	69	10.3		11.6	-0 40	-11.3	
2	0	$7^M.8$	7.8	8.0	$+0$ 23	$- 2.4$		18	73	10.4		11.9	-0 54	-10.8	
3	13	8.3	8.5	8.6	$+1$ 46	$+13.8$		19	73	10.4		11.9	$+0$ 39	$+ 6.5$	
4	17	8.4	8.5	8.8	-1 11	$+13.8$		20	75	10.5		12.0	-0 18	-10.2	
5	20	8.5	9.0	8.9	-1 57	$- 8.3$									
6	22	8.6	9.0	9.0	-0 14	-13.5		21	78	10.6		12.2	-1 5	-10.8	
7	28	8.8	8.5	9.3	-1 14	-24.5		22	78	10.6		12.2	-0 50	$+ 2.9$	
8	31	8.9	8.9	9.5	-1 7	-18.2		23	78	10.6		12.2	$+0$ 51	$- 0.8$	
9	39	9.2	9.3	9.9	$+1$ 26	-15.8		24	80	10.7		12.3	$+0$ 45	$+ 8.7$	
10	41	9.3	9.5	10.0	$+1$ 36	$- 7.2$		25	80	10.7		12.3	$+0$ 31	$- 4.8$	
11	42	9.3	9.3	10.0	$+1$ 48	$+29.7$		26	89	11.0		13.0	-0 22	$+ 3.0$	
12	47	9.5	9.4	10.3	-1 31	$+18.3$									
13	49	9.6		10.4	$+0$ 17	$- 5.9$									
14	53	9.7	9.3	10.6	-1 2	$+ 6.2$									
15	58	9.9		10.9	-0 5	$+ 5.2$									

$$\text{M.} = 9.0 + 0.036 \,(\text{G} - 33.1).$$

8622

W Ceti

$23^h 54^m 41^s$ (1855.0) $- 15° 29'.0$

Max. $= 2413565^d$ (6 Januarii 1896) $+ 366^d$ E?

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$7^M.3$	$7^M.6$	$+3^m 19^s$	$+15'.3$		19	73	$10^M.3$		$11^M.8$	$-1^m 24^s$	$+27.2$	
2	0	$8^M.3$	8.3	8.6	$+0\ 41$	-21.8		20	76	10.3		11.9	$-0\ 30$	$+\ 5.1$	
3	4	8.4	8.5	8.8	$-1\ 44$	$+11.4$		21	79	10.4		12.0	$+1\ 57$	$+23.9$	
4	19	8.8	8.8	9.4	$+3\ 37$	-16.1		22	80	10.5		12.1	$+0\ 27$	$-\ 8.1$	
5	22	8.9	9.0	9.6	$+3\ 14$	-23.0		23	83	10.5		12.2	$-1\ 13$	-26.9	
6	24	8.9	9.0	9.7	$+1\ 33$	$+35.6$		24	83	10.5		12.2	$+1\ 26$	0.0	
7	27	9.0	9.0	9.8	$+1\ 58$	-26.0		25	85	10.6		12.3	$+0\ \ 9$	$+\ 7.2$	
8	31	9.1	9.1	10.0	$+2\ \ 8$	-14.1		26	87	10.6		12.4	$-0\ \ 7$	-24.0	
9	31	9.1	9.0	10.0	$-2\ \ 6$	$-\ 8.4$		27	87	10.6		12.4	$+1\ 24$	$+\ 2.7$	
10	32	9.2	9.1	10.0	$-0\ 11$	-18.0		28	91	10.7		12.6	$-0\ 52$	$+11.9$	
11	38	9.3	9.3	10.3	$+2\ 33$	-33.9		29	91	10.7		12.6	$+1\ 42$	$+20.8$	
12	43	9.5	9.6	10.5	$+1\ 29$	-11.8		30	92	10.8		12.6	$-1\ 25$	-21.2	
13	47	9.6	9.5	10.6	$-0\ \ 3$	-30.8		31	97	10.9		12.8	$+0\ 22$	$+17.7$	
14	48	9.6	9.4	10.7	$+0\ 13$	$+30.5$		32	98	10.9		12.9	$+0\ \ 7$	-10.2	
15	51	9.7	9.7	10.8	$+1\ 51$	-33.8		33	100	11.0		13.0	$+0\ 17$	$+15.0$	
16	56	9.8	9.5	11.0	$+2\ \ 0$	-30.0		34	104	11.1		13.2	$-0\ 31$	$+\ 6.6$	
17	64	10.0		11.4	$-1\ 41$	$+\ 0.3$		35	108	11.2		13.3	$-1\ \ 2$	-11.7	
18	69	10.2		11.6	$-1\ 30$	$+14.1$									

$$M = 9.0 + 0.027\ (G - 26.2).$$

Y Cassiopeiae

$23^h 55^m 57^s$ (1855.0) $+ 54^0 52'.5$

Max. $= 2\,414\,354^d$ (5 Martii 1898) $+ 410^d$ E.

Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae	Num.	Gradus	Magn.	BD.	HP.	$\Delta\alpha$	$\Delta\delta$	Notae
1			$5^M.0$	$4^M.9$	-4^m18^s	$+ 4'.5$	σ Cassiop. Σ 3049 PD. $5^M.12$ W+	36	79	$10^M.5$		$10^M.8$	$+0^m26^s$	$- 8'.7$	P. t
2	0	$7^M.5$	7.0	7.0	$+2\ 16$	$+ 1.5$	„ 7.05 G–	37	80	10.5		10.9	$+1\ 44$	$+25.8$	
3	11	7.9	7.9	7.7	$+0\ 6$	$- 7.9$	P. 7.6 A*	38	80	10.5		10.9	$-1\ 0$	$+ 5.7$	„ q ***
4	20	8.3	8.3	8.2	$-0\ 46$	$- 6.3$	„ 8.2 B	39	83	10.6		11.0	$-0\ 14$	$+ 6.6$	„ p, dpl.
5	26	8.5	8.5	8.5	$+0\ 9$	-37.4		40	83	10.6		11.0	$+0\ 13$	$+ 1.5$	„ $10^M.6$ c
6	29	8.6	9.0	8.7	$+1\ 33$	$+22.7$		41	84	10.6		11.0	$-0\ 46$	$+ 9.3$	
7	33	8.8	9.0	8.9	$+1\ 23$	-30.1		42	84	10.6		11.0	$+0\ 3$	$+13.6$	dpl.
8	35	8.8	9.0	9.0	$-3\ 6$	$+ 0.9$		43	85	10.7		11.1	$-0\ 53$	$- 5.8$	
9	38	8.9	9.0	9.1	$-2\ 38$	$+ 2.5$		44	86	10.7		11.2	$-1\ 46$	$+ 8.9$	
10	39	9.0	9.1	9.1	$+0\ 45$	$+21.2$	„ 8.3 β	45	86	10.7		11.2	$+0\ 30$	-13.8	
11	40	9.0	8.8	9.2	$-2\ 58$	-13.5		46	87	10.7		11.2	$+1\ 5$	-12.0	
12	41	9.0	9.3	9.2	$-2\ 40$	$+12.7$		47	89	10.8		11.3	$-1\ 40$	$- 3.9$	
13	42	9.1	8.9	9.3	$+2\ 12$	-24.8		48	90	10.9		11.3	$-1\ 33$	-13.8	
14	44	9.2	9.0	9.3	$+2\ 30$	-15.9		49	90	10.9		11.3	$+0\ 22$	$+ 6.6$	
15	45	9.2	9.1	9.4	$-1\ 1$	-15.9	„ 9.0 o	50	91	10.9		11.4	$-0\ 54$	$+ 6.9$	
16	50	9.4		9.6	$+1\ 16$	$+23.9$	**	51	93	11.0		11.5	$+0\ 30$	$- 3.6$	
17	51	9.4	9.5	9.6	$-0\ 53$	$- 3.0$	P. 9.7 l	52	94	11.0		11.5	$-1\ 34$	$+ 6.0$	
18	53	9.5		9.7	$+1\ 19$	$+24.2$	**	53	94	11.0		11.5	$+0\ 54$	-14.4	
19	54	9.5	9.5	9.8	$-0\ 14$	$- 6.7$	P. 10.0 s	54	94	11.0		11.5	$+0\ 1$	$- 9.6$	
20	56	9.6	9.5	9.9	$-1\ 12$	-14.1	„ p'	55	96	11.1		11.6	$-1\ 21$	$- 3.6$	
21	56	9.6	9.5	9.9	$+0\ 54$	-23.4		56	100	11.2		11.8	$-1\ 11$	$+ 0.2$	
22	58	9.7	9.5	9.9	$-1\ 14$	$+14.8$		57	101	11.3		11.9	$-1\ 20$	$+ 2.7$	
23	60	9.8	9.5	10.0	$+0\ 49$	$+ 2.4$	„ 9.9 m	58	101	11.3		11.9	$-0\ 31$	$+12.0$	dpl.
24	63	9.9	9.5	10.1	$-1\ 50$	$+23.0$	dpl.	59	104	11.4		12.1	$+0\ 13$	$+ 9.1$	****
25	67	10.0		10.3	$-0\ 51$	$+ 5.8$	P. o' ***	60	104	11.4		12.1	$+0\ 1$	$+ 2.1$	P. 11.3 d
26	70	10.1		10.4	$+0\ 15$	$+ 8.4$	„ n****	61	108	11.5		12.3	$+0\ 30$	$- 6.7$	dpl.
27	72	10.2		10.5	$-1\ 35$	$+ 8.1$		62	108	11.5		12.3	$-0\ 46$	$+ 9.0$	
28	74	10.3		10.6	$0\ 0$	$+ 0.7$	„ 10.3 b	63	110	11.6		12.5	$+1\ 13$	0.0	
29	74	10.3	9.5	10.6	$-0\ 41$	$+18.6$		64	114	11.7		12.7	$-0\ 51$	$+ 9.4$	
30	75	10.3		10.6	$+0\ 56$	$- 2.4$	„ r						$+0\ 3$	$+ 0.1$	P. 12.0 f
31	76	10.3		10.7	$+0\ 40$	$+11.9$							$-0\ 10$	$+ 1.1$	„ 12.7 g
32	76	10.3		10.7	$-2\ 40$	$+19.5$							$+0\ 6$	$+ 0.8$	„ 12.7 e
33	77	10.4	9.5	10.7	$-2\ 33$	-10.2							$-0\ 22$	$+ 1.9$	„ 13.0 k
34	77	10.4		10.7	$+1\ 35$	$+26.7$							$+0\ 7$	$- 1.7$	„ 13.4 a
35	78	10.4		10.8	$+0\ 56$	$+11.7$							$+0\ 6$	$- 1.2$	„ 13.9 z, dpl. (sp.)

* Parkhurst, Researches in Stell. Photom. 1906, p. 176 Tab. 110 (magnitudines et litterae).

** $(16 + 18) = $ BD. $+ 55^0 3081, 9^M.2$

*** $(25 + 38) = $ BD. $+ 54^0 3100, 9^M.5$

**** $(26 + 59) = $ BD. $+ 55^0 3075, 9^M.5$

$$\mathbf{M = 8.5 + 0.037\ (G - 26.2).}$$